

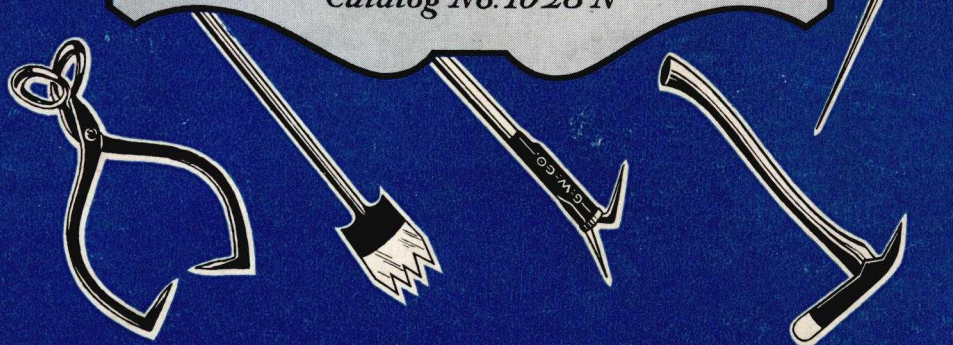
ICE TOOLS



GIFFORD-WOOD CO.

MAKERS FOR NINETY YEARS

Catalog No. 1028 N



324-38

Rec. 10/17/28

2.50
84

G-W DEPENDABUILT ICE TOOLS

Catalog No. 1028-N

*We also manufacture a complete line
of*

Ice Handling Machinery

including

Elevators
Conveyors
Car and Sleigh Loaders
Field Saws, Gasoline
Gallery Hoists
Icing Station Machinery
Friction Hoists, Etc.

Lowering Machines
Tiering Machines
Scoring Machines
Ice Crushers
Swing Cut-Off Saws
Ice Truck Bodies
Ice Cubing Machines

If interested write for Catalog No. 1226

GIFFORD WOOD CO.

Main Office and Works
HUDSON, N. Y.

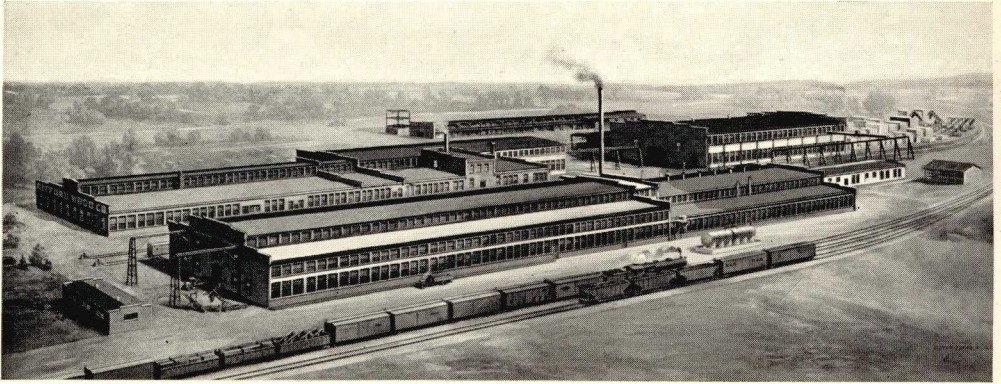
Offices

565 W. Washington Street
CHICAGO

Graybar Building
Lexington Avenue at
43rd Street
NEW YORK

555 Howard Street
SAN FRANCISCO

THE PLANT BACK OF THE PRODUCT



THE GIFFORD-WOOD PLANT AT HUDSON, N. Y.

A complete manufacturing plant, including Foundry, Pattern Shop, Machine Shop, Steel Shop, Forge Shop, Paint Shop, and Assembly Shop, thoroughly equipped with the most modern industrial plant machinery.



During the past few years there has been a tremendous change in the ice business—a change perhaps in keeping with the progression as in many other lines.

To keep abreast with this advancement, we present this catalog to our many customers and which portrays our full line of Ice Tools in the most comprehensive way.

We have endeavored to show our Ice Tools by illustrations as they actually appear, so a selection of the various tools required may be chosen intelligently.

Our experience in designing and manufacturing Ice Tools dates back nearly one hundred years and keeping in constant touch with the ice man and studying his needs, has enabled Gifford-Wood Co., to produce Ice Tools that meet every requirement.

A careful system of inspections and working tests of finished Tools insures high quality of workmanship and finish.

The selection of the very highest quality of materials, the careful treatment it receives during manufacturing and the employment of the most experienced edge-tool workmen to be found, is the foundation that has builded for Gifford-Wood Ice Tools, the recognized standard of excellence and leaders in popularity.

Gifford-Wood Ice Tools are manufactured in our modern plant in Hudson, N. Y.—a plant which represents the most advanced development in factory construction. The buildings contain over one hundred and fifty thousand square feet of floor space, are splendidly lighted and ventilated, and are well arranged for the convenient and economical handling of all work.

A Thumb Nail-Full of History

ON a brilliant early fall afternoon in 1609 Hendrik Hudson, in search of the "North West Passage", threw the helm of his historic Half Moon to leeward and dropped anchor. One hundred and fourteen miles above the mouth of the beautiful river which ever since has borne his name, he had reached the limit of navigation for ocean going vessels. To the east of his anchorage a rocky ridge of high land protruded into the river between indenting bays, from which wondering Indians watched the white winged monster with fear and trembling.

Almost two centuries later a group of deep sea whalers from New Bedford embarked from that port, with their families and household goods safely stowed in their quaint square rigged vessels, in search of an inland port. Some say they sought a base from which they could distribute their product over a wider area with less transportation. Others say they merely sought a fresh water harbor so that the accumulation of barnacles would die and automatically release themselves from the hulls of their vessels during their stay in port.

These hardy seamen ascended the Hudson River to the head of navigation and founded the City of Hudson on that same protruding prominence, on the east bank of the river, from which the amazed Red Men had beheld the white-sailed wonder almost two hundred years before.

Several years later, in 1814, Elihu Gifford, a son-in-law of one of these pioneers, became proprietor of the gray iron foundry started by his father-in-law and founded the enterprise which is now shipping its products from the haven of the Half Moon into all parts of the world.

In 1905 the firm of Gifford Brothers, which had attained international recognition under the progressive and efficient management of the sons and grandsons of its founder, joined forces with Wm. T. Wood & Co., of Arlington, Mass., then embracing the third generation of its founder's genius, to form the corporation known as Gifford-Wood Co.

Natural results of this consolidation were expansion into a broader field and the building of a thoroughly modern industrial plant. The combined experience of these two organizations, which together had for many years dominated the ice handling machinery and ice tool business, when applied to the design, application and construction of coal handling machinery soon gained for the consolidated company a position of leadership in that field.

Rapid growth due to this fusing of progressive forces caused the old Gifford plant, still located in the very heart of Old Hudson, to cramp like old armor to a growing young giant. The modern industrial plant pictured at the top of preceding page was completed in 1911. It is located on a prominence south of the old city, known as Second Hill, overlooking the bend in the historic Hudson where the Half Moon dropped anchor more than three hundred years ago.

Gifford-Wood Co., which has won a national and international reputation for dependability, service and fair dealing, is managed today by descendants of the founders of the two pioneer industries which it absorbed.

GIFFORD-WOOD CO.

Branches and Agencies

For the convenience of our customers, we carry a complete stock of Ice Tools at our following branches:

GIFFORD-WOOD CO.,
565 W. Washington Street, Chicago, Ill.

GIFFORD-WOOD CO.,
555 Howard Street, San Francisco, Cal.

CHANDLER & FARQUHAR CO.,
250-260 Devonshire Street, Boston, Mass.

Agents

Southern Construction Co.	Atlanta, Ga., Houston and Jackson Sts.
Anaconda Copper Mining Co. (Hardware Dept.)	Butte, Mont.
Standard Scale & Supply Corp.	Cleveland, Ohio
The George Tritch Hardware Co.	Denver, Colo.
Marshall Wells Hardware Co.	Duluth, Minn.
Richards & Conover Hardware Co.	Kansas City, Mo.
Sickels-Loder Co.	New York City, 56-58 Murray St.
James Morton & Son Co.	Omaha, Nebr.
Standard Scale & Supply Corp.	Philadelphia, Pa., 523 Arch St.
Standard Scale & Supply Corp.	Pittsburgh, Pa., 412 First Ave.
Morley Bros.	Saginaw, Mich.
Simmons Hardware Co., Inc.	St. Louis, Mo.
Farwell, Ozmun, Kirk & Co.	St. Paul, Minn.
The Salt Lake Hardware Co.	Salt Lake City, Utah
The W. C. Phillips Co., Inc.	San Francisco, Cal., 1274 Folsom St.
Hardwicke-Etter Co.	Sherman, Texas
Holley-Mason Hardware Co.	Spokane, Wash.
The J. H. Ashdown Hardware Co., Ltd.	Winnipeg, Man., Canada
Okura & Co. (Agents for Japan)	New York City (Tokio, Japan), 30 Church St.
Anton P. Jaeger (Agent for Norway and Sweden)	Lysaker, Norway; P. O. Box 248

How to Order

Prices are uniformly quoted on a basis f. o. b. cars.

Terms are 30 days to customers of record.

Persons with whom we are unacquainted or who have no rating in Dun's or Bradstreet's Reference Books should accompany order with cash, or give reference to some bank or well-known business house.

If requested, goods will be sent C. O. D

Telegraph Code

Codes: Bentley's and A B C 5th Edition.

Cable Address: "Gifwood, Hudson."

Orders by telegraph may be condensed by using the code words which are printed in connection with the prices given in this catalog.

Prefix "Freight," "Steamer," "Express," or "Parcel Post," as may be desired.

Please specify method of shipment in each case.

When fractions of a dozen, or a few dozen only, are wanted, use the following code words for quantity:

$\frac{1}{12}$ dozen Dais.	$\frac{7}{12}$ dozen Desert.	2 dozen Dragon.
$\frac{1}{6}$ " Darnel.	$\frac{2}{3}$ " Despot.	$2\frac{1}{2}$ " Drama.
$\frac{1}{4}$ " Decoy.	$\frac{3}{4}$ " Dexter.	3 " Dryad.
$\frac{1}{3}$ " Delta.	$\frac{10}{12}$ " Docket.	4 " Duet.
$\frac{5}{12}$ " Denote.	1 " Dolmen.	5 " Dulcet.
$\frac{1}{2}$ " Dentil.	$1\frac{1}{2}$ " Domino.	6 " Dyke.

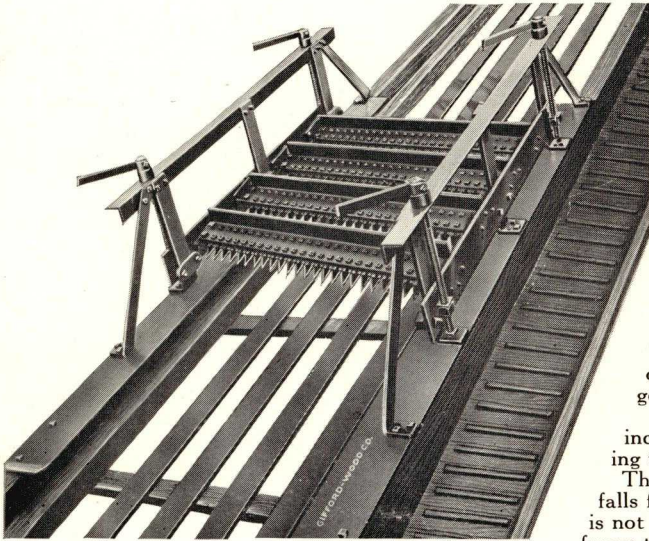
Illustration: "Express C. O. D. Denote Nettle" would order $5\frac{1}{12}$ dozen $4\frac{1}{2}$ feet Ice Hooks sent C. O. D. by express, and "Freight Dulcet Nettle," would order by freight 5 dozen $4\frac{1}{2}$ feet Ice Hooks.

Our Ice Tools are now painted black. Always look for the stamp of "Gifford-Wood Co." on every tool.

Send all Ice Tools in need of Repair to our Factory, at Hudson, N. Y.

GIFFORD-WOOD CO.

Elevator Planers



Patented.

Most harvesters now use this style of Planer. Some put in their entire crop planed to one even thickness. This practice makes perfectly level floors and simplifies the retailing business wonderfully. Wholesale shippers of natural ice to markets where manufactured ice is used have a great advantage in furnishing cakes of uniform weight.

Others who cannot afford the waste incidental to reducing the entire crop to one thickness, change the depth of cut from time to time, and yet get the benefit of level floors.

The knife-bars are set to cut one inch to each set of knives, excepting that the rear cut is made $\frac{3}{4}$ inch.

The cheapest way to remove snow falls from the ice-field, when the ice is not too thick, is to wet them down, freeze them and plane at the run.

EUREKA ELEVATOR PLANNER; DIAGONAL CUT, LEVER SCREW ADJUSTMENT

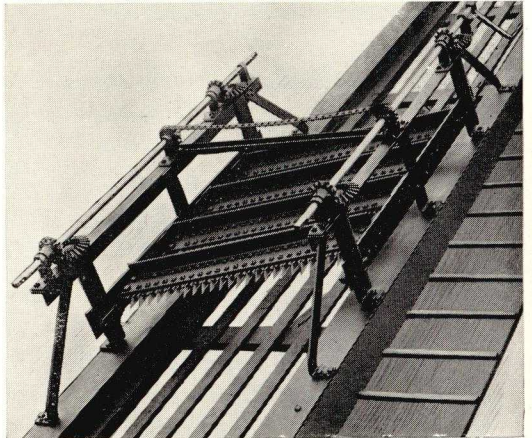
Weight of 6-bar planer for 44-in. run inside, 1300 lbs.; weight of each diagonal knife-bar, 110 lbs.

	Code Word	Each
No. 254A.—Eureka Elevator Planers, Stationary Style, 2 knives..	<i>Age</i>	\$230.00
No. 254B.—Eureka Elevator Planers, Stationary Style, 3 knives..	<i>Agile</i>	275.00
No. 254C.—Eureka Elevator Planers, Stationary Style, 4 knives..	<i>Agree</i>	325.00
No. 254E.—Eureka Elevator Planers, Stationary Style, 6 knives..	<i>Aim</i>	415.00
No. 257.—Extra Cutter Bars, complete for 50" Run or under ..	<i>Alack</i>	39.00

Our Eureka Elevator Planer, Stationary Style, with the New Universal Adjusting Arrangement, illustrated at right, permits raising or lowering the knife-bars from any of its four corners by operating a crank. The clamps must be loosened on each side of the machine as heretofore, but there is an advantage in having both sides adjusted alike even in the hands of a careless person.

These prices cover Planers for any width of incline up to fifty inches. Prices on Planers in excess of this width quoted on application.

When ordering a Planer, please state whether your Elevator is an Incline Elevator or an Elevator Conveyor and the size of cakes you cut. Also give measurements, see page 8.



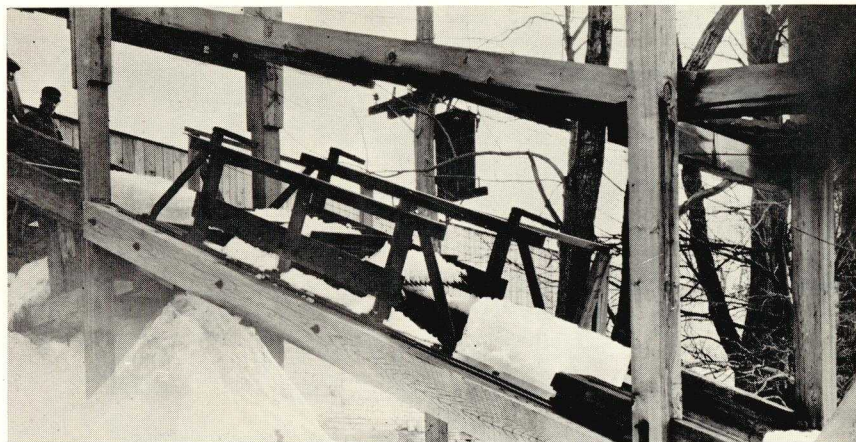
EUREKA ELEVATOR PLANNER; DIAGONAL CUT; BEVEL GEAR ADJUSTMENT

Weight of 6-bar planer for 44-in. run inside, 1400 lbs.; weight of each diagonal knife-bar, 110 lbs.

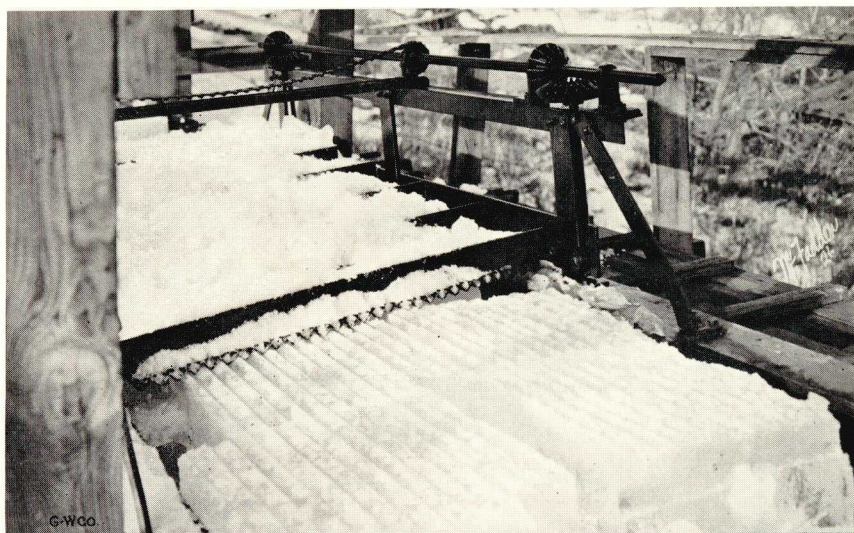
	Code Word	Each
No. 256K.—Eureka Elevator Planers, Stationary Style, 2 knives..	<i>Akin</i>	\$250.00
No. 256L.—Eureka Elevator Planers, Stationary Style, 3 knives..	<i>Akil</i>	300.00
No. 256M.—Eureka Elevator Planers, Stationary Style, 4 knives..	<i>Aknee</i>	350.00
No. 256O.—Eureka Elevator Planers, Stationary Style, 6 knives..	<i>Akra</i>	450.00
No. 257.—Extra Cutter Bars, complete for 50" Run or under ..	<i>Alack</i>	39.00

ICE -DEPENDABUILT- TOOLS

Elevator Planers



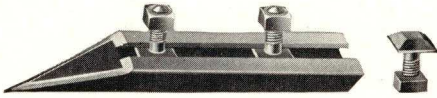
Ice Being Planed to One Even Thickness



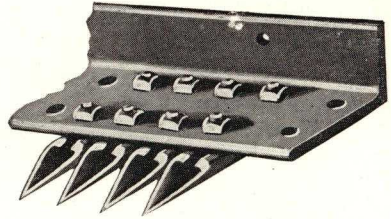
Cake of Ice After Being Planed, Showing Perfect Corrugations.

When ordering a Planer, please state whether your Elevator is an Incline Elevator or an Elevator Conveyor, and the size of cakes you cut. Also give measurements, see page 8.

GIFFORD-WOOD CO.



**Pat. Eureka Flanged Tooth.
Tent-Head Bolt.**



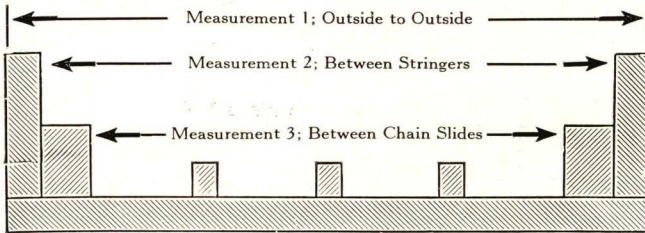
Section of Eureka Cutter Bar.

- | | Code Word | Each |
|---|---------------|---------|
| No. 257.—Eureka Cutter Bars, complete for 50" Run or under... | <i>Alack</i> | \$39.00 |
| No. 258.—Patent Eureka Flanged Teeth..... | <i>Albata</i> | 1.00 |
| No. 259.—Tent-Head Bolts for Flanged Teeth..... | <i>Albino</i> | .20 |
- The Eureka Cutter Bar, fitted with Flanged teeth, makes an absolutely first-class knife, which is unequalled. We drill each bar so that a flash-board can be bolted to its back, to prevent chips from falling onto the corrugated cakes.

Patent Eureka Flanged Teeth are best quality tool-steel and are finely-tempered.

Grind the teeth only on the top side, leaving the bottom side straight.

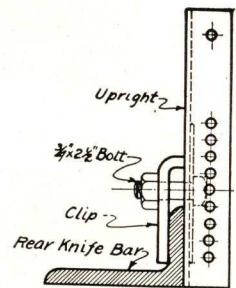
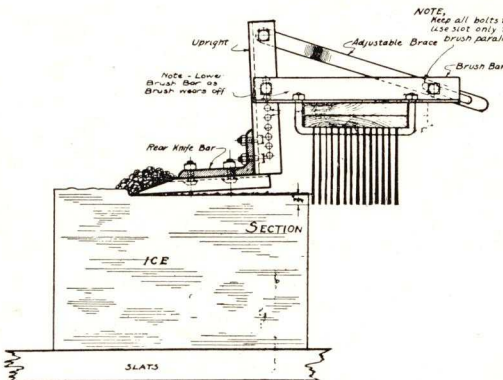
Every tooth is independent, needing but two Tent-Head Bolts to fasten it firmly. The bolts need only to be loosened to remove a tooth, or to set it forward.



When ordering a Planer, state whether your elevator is an Incline Elevator or an Elevator Conveyor, and the size cakes you cut.

If an Incline Elevator, please give measurements 1, 2, and 3, shown on diagram above. It is well also to state the pitch of your incline—the number of inches it rises in a horizontal foot. If an Elevator Conveyor, we need measurements 1 and 2.

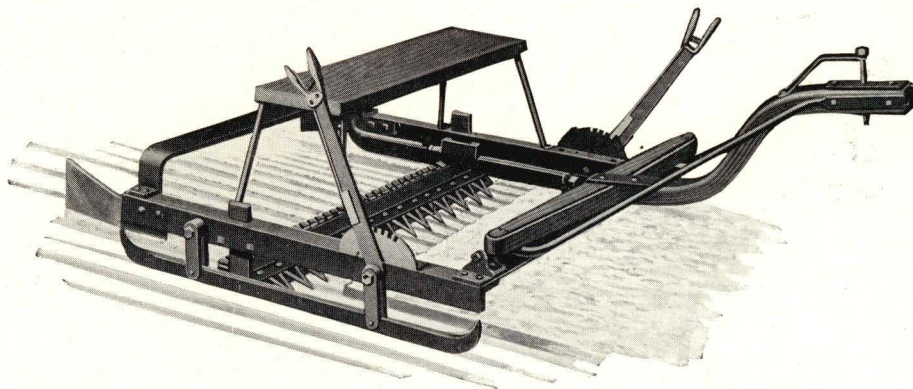
PLANER BRUSH ATTACHMENT.



**Detail Showing Attachment
Fastened to Rear Knife
Bar by Clip -**

- | | |
|--|---------------------------|
| No. 270.—Planer Brush attachments..... | Alлот per set, \$9.00 net |
|--|---------------------------|
- All natural ice dealers recognize the value of the corrugated ice surface in storing. That such a surface to be suitable should be free from chips, is now generally recognized. Our steel brushes, illustrated on the opposite page, have proved to be especially valuable in cleaning corrugated ice surfaces.

ICE —DEPENDABUILT— TOOLS



PERFECTION FIELD PLANER, FITTED WITH EUREKA CUTTER BAR AND PATENT FLANGED TEETH.

Weight, with one knife, 320 lbs.

Code Word Each

No. 271.—Perfection Field Planers, with one 40-in. Pat. Eureka Cutter-Bar and Pole, and with Stationary Clearing Wings.....	<i>Allude</i>	\$150.00
(Evener, whiffletrees and neck yoke are not included.)		
No. 274.—Extra 40-in. Patent Eureka Cutter-Bars, complete with Patent Eureka Flanged Teeth.....	<i>Alpaca</i>	39.00
No. 258.—Extra Patent Eureka Flanged Teeth.....	<i>Albata</i>	1.00
No. 259.—Extra Tent-Head Bolts for Flanged Teeth.....	<i>Albino</i>20
No. 279.—Ordinary Field Planers, 22 in. wide, with one Patent Eureka Knife-Bar, complete.....	<i>Alcove</i>	60.00

The Perfection Field Planer, or Cultivator, has a great advantage over the Ordinary Field Planer in that *no grooving by the marker* is required before operating it. It is provided with independent runners which are raised by the operator at will, so that one will rest on the uncut surface, allowing the knife to cut to such depth as is desired, while the other runner is dropped to the level of the knife and rests on the planed portion, thus making a perfect joint with the previous cutting.

A pair of good horses will plane off, at a single trip, from two to three inches in depth, and the *full width* of 40 inches.

For cutting off drifted bunches of sap ice, the Perfection Planer is invaluable. The levers can be manipulated at will when in use, and the chip can be graded from nothing to the deepest cut.

The Stationary Clearing Wings leave a good path to travel in for the plow horse which follows in the planed part.



EUREKA PLANER BRUSH

Code Word Each

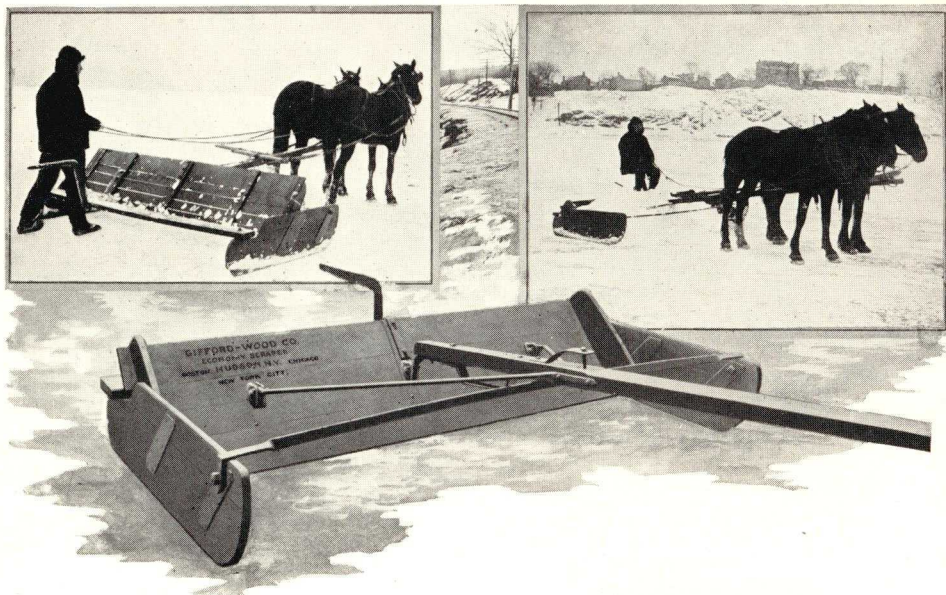
No. 266.—Planer Brushes, 36 in., best quality wire.....	<i>Allison</i>	\$20.00
No. 267.—Planer Brushes, 46 in., best quality wire.....	<i>Allocote</i>	26.00
No. 268.—Planer Brushes, 56 in., best quality wire.....	<i>Allopth</i>	32.00

Eureka Planer Brushes made of best quality wire bristles.

The reinforced backs extend a sufficient distance beyond the wire bristles to allow for attaching to the Planer. By their use the blocks of ice are swept clean before entering the house.

Planer Brush attachments shown on the opposite page.

GIFFORD-WOOD CO.



"ECONOMY" SNOW SCRAPER.

No. 300.— Gifford-Wood Economy Snow Scraper, complete with pole.

Code Word	Each
Approach	\$95.00

(Evenser, whiffletrees and neck yoke are not included.)

Weight, with pole, 400 lbs.

The necessity of removing snow and chips from ice fields rapidly and economically needs little argument. Lack of efficiency in this important part of the industry is likely to interfere with the total amount of ice harvested, and any saving in the usual expense of removing snow is in the line of economy and progress.

Design.— A careful study of harvesting methods and the general ice and snow conditions prevailing in different parts of the country, combined with extensive experimenting, has enabled us to construct the "Economy" Snow Scraper in which we have embodied not only "the latest design," "best in quality," but all those fine points characteristic of Gifford-Wood Co.'s products.

Construction.— The "Economy" is made entirely of the finest selected white oak, properly ironed and is 9 feet long.

Operation.— Both the scraper and the team are operated by one man. Scrapers clean in all kinds of snow except a hard crust, when our cultivator No. 271 (see page 9) should be used first; rides the dump easily and may be drawn back through the field of snow in its inverted position. There are no cleats to become clogged.

The pole is self-supporting which is an important feature to relieve the horses—many believe a pole has a steadying effect on the team and saves fretting.

As we guarantee the "Economy" Scraper to do all that we claim, it will prove a most valuable addition to your harvesting equipment.

ICE —DEPENDABUILT— TOOLS



BOSTON SNOW SCRAPER

Weight of 6-ft. scraper without chain, 160 lbs.

Weight of 8-ft. scraper without chain, 185 lbs.

	Code Word	Each
No. 284.— Boston Scrapers (chains not included), 6 feet long.....	<i>Ample</i>	\$47.00
No. 285.— Boston Scrapers (chains not included), 8 feet long.....	<i>Amuse</i>	50.00



CHAINS

	Code Word	Each
No. 288.— Chains, for 6-ft. Boston Scrapers, weight 20 lbs.....	<i>Apartment</i>	\$5.50
No. 289.— Chains, for 8-ft. Boston Scrapers, weight 23 lbs.....	<i>Aperture</i>	6.25

This style is one of the most effective and popular scrapers in use. Many large ice companies who have had extended experience use the Boston for all depths of snow and planer chips.

Made in most thorough manner with matched lumber, oak throughout, heavily ironed, and painted.

The handles are long enough to prevent the operator from stooping.

Three-eighth-inch chains are preferred to ropes. The loose rings to which they are fastened slip along the draw irons in dumping and the draft helps to reverse the scraper. The scraper handles when inverted rest upon the iron cross-rod between the chains.



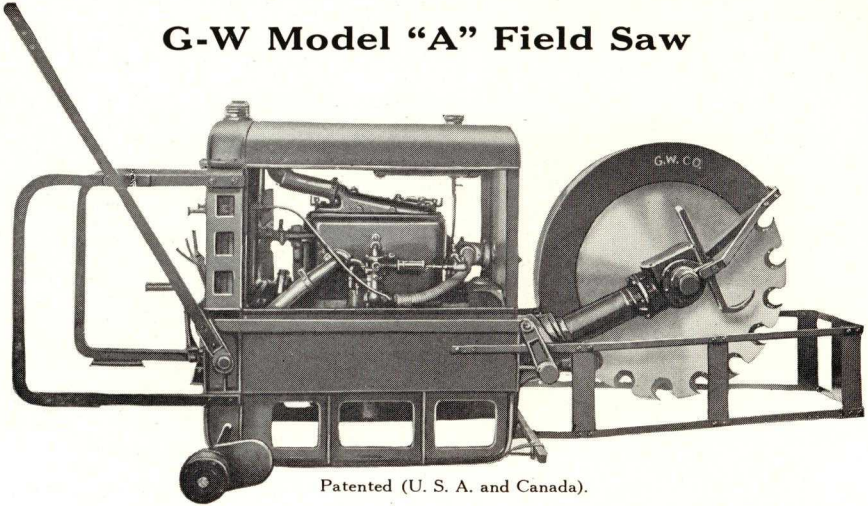
Scrapping the Field.



Scraper in Dumping Position.

GIFFORD-WOOD CO.

G-W Model "A" Field Saw



Patented (U. S. A. and Canada).

This machine is recommended for plants of over 10,000 tons capacity for which it is necessary to make cuts 10" deep and over. In cutting cakes which are not square, such as 22" x 32", it has been found economical to have two machines, the guides of one set to 22" cut and the guides of the other set for 32" cut, making it possible to work the field in both directions at the same time. Two machines are especially desirable for harvesting for houses of over 50,000 tons capacity.

Specifications

Frame: Entirely of electrical steel castings accurately machined to fixtures insuring correct alignment of all parts attached thereto. Runners are ground for smooth bearing on ice.

Engine: Four Cylinder Buda standard. Model WU, 3 $\frac{3}{4}$ " bore and 5 $\frac{1}{8}$ " stroke. Aluminum crank case, standard S. A. E. housing for flywheel.

Magneto: Dixie Aero, Model 448, equipped with impulse starter and adjustable coupling.

Carburetor: 1" size, Model M1 Stromberg Carburetor, equipped with hot air heater.

Governor: 1" size, Pierce Governor sealed to engine, speed of 1400 R. P. M.

Radiator: Core of brass, tube and fin type, provided with electric cast steel bottom tank and side braces. Aluminum tank at top equipped with filler neck and strainer.

Gasoline Tank: Seven gallon, terne plate tank with turned and soldered seams. Fitted with sediment bulb.

Hood: Automobile body steel No. 18 gauge. Doors work in specially formed slides permitting variable opening to suit weather conditions.

Transmission: Pivot gears are case-hardened, heat-treated chrome-nickel steel with straight cut teeth. Mounted in a special oil-tight case. Saw driving gears are case-hardened, heat-treated chrome-nickel steel, with spiral teeth. Mounted in oil-tight aluminum case. New Departure ball bearings throughout, of ample size to withstand service. Driving shaft and saw arbor of special high carbon steel accurately machined and ground for bearings and gears.

Saws: One 32" or 36" diameter inserted tooth Simonds saw provided with specially designed controlling heel feature. Removable saw guard provided.

Guides: Arranged to cut all sizes of ice from 18" to 44".

Capacity: Will cut 14" ice 10" deep at the rate of 2,000 tons in ten hours. Travels over field at 160 ft. per minute. Maximum cutting depth for 36" saws is 13 $\frac{1}{2}$ ".

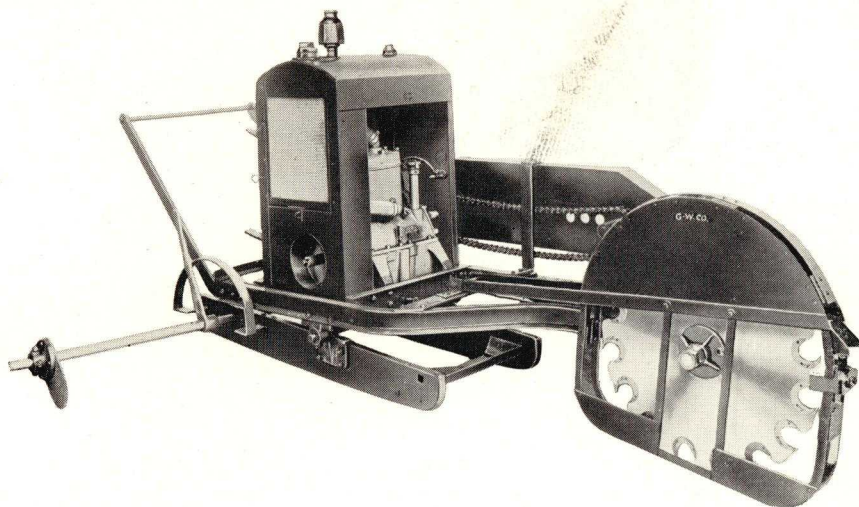
Weight: In complete working order about 1,100 lbs.

Tools: Complete set of special tools and wrenches in metal tool box; set of instructions and extra set of saw teeth supplied with each machine.

Testing and Inspection: Each machine is given thorough inspection and a shop test run before shipment.



G-W Model "C" Field Saw



This machine is recommended for plants up to 2,000 tons capacity. In plants of 5,000 tons capacity it is advisable to use two machines and especially so if the ice is not cut square such as 22" x 32", as the guides on one machine may be set for 22" cutting and on the other they may be set for 32" cutting, making it possible to work the field in both directions at the same time.

Specifications

Sled and Frame: Sled runners are made of well seasoned oak, with protecting irons, and are securely braced. The engine supporting frame is of structural steel construction and is hot riveted together.

Engine: The engine is a twin cylinder Le Roi, bore $3\frac{3}{8}$ ", stroke $4\frac{1}{2}$ ", developing 8 H. P. This is a water cooled engine and it is mounted as a unit with radiator, gasoline tank, hood and supports, and the radiator is provided with a leather cover for use in extremely cold weather.

Magneto: A high tension magneto of approved type is used.

Carburetor: Float type, efficient and economical.

Governor: Enclosed Flyball Throttling Type.

Cooling: Thermo Syphon with tractor type radiator also fan and automatically tightened fan belt.

Fuel Consumption: $\frac{3}{10}$ gal. per hour.

Oil Consumption: $\frac{3}{10}$ pt. per hour.

Saws: One 28" diameter inserted tooth Simonds saw with specially designed controlling heel.

Guides: Are adjustable and arranged to cut all sizes of ice from 18" to 44".

Capacity: Will cut at about 100 ft. per min. and at this rate, operating on 12" ice, it has a capacity of approx. 800 to 1,000 tons of ice per day.

Weight: 900 pounds, ready to run.

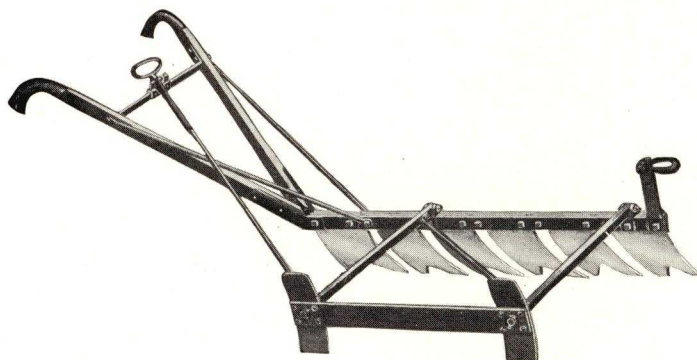
Testing and Inspection: Each machine is thoroughly inspected and put through a test run in the shop before shipment.

Hood: Completely enclosing engine with gasoline tank located in the top.

Transmission: There is a 2 to 1 reduction built into the engine and the power which drives the saw is taken from the driving shaft. This is done by means of a roller chain of very rugged design. The sprockets are of generous size, yet small enough to permit a maximum depth of cut. Tighteners on the chain prevent slapping and breaking.



GIFFORD-WOOD CO.



"ICE KING" PLOW

8-in. 5 Teeth, with Non-Adjustable Swing Guide and clearing tooth.

Weight, with case, 115 lbs.

	Code Word	Each
No. 315.— 8-in. "Ice Kings," 5 cutting teeth and clearing tooth, with 22-in. Swing Guide.....	<i>Apricot</i>	\$53.00
No. 316.— 10-in. "Ice Kings," 5 cutting teeth and clearing tooth, with 22-in. Swing Guide.....	<i>Apropos</i>	58.00
No. 317.— 12-in. "Ice Kings," 5 cutting teeth and clearing tooth, with 22-in. Swing Guide.....	<i>Apsis</i>	63.00
No. 317½.— Extra Swing Guides to mark 24-in., 26-in., 28-in., or 30-in., any one size made to order only	<i>Aquarium</i> ...	12.00
No. 318. — 8-in. "Ice Kings," without Guide.....	<i>Aqueduct</i>	45.00
No. 318½.— 10-in. "Ice Kings," without Guide	<i>Arbiter</i>	50.00
No. 319. — 12-in. "Ice Kings," without Guide.....	<i>Arbor</i>	55.00

All Special Guides made on order only and at an advance over prices on our regular line.

The "Ice King" Plow is designed upon scientific principles combined with our 90 years of practical experience and contact with the natural ice industry.

This design has been accepted as the most economical and practical on the market. The teeth are made of the finest quality crucible tool steel, carefully heat treated to maintain a keen cutting edge.

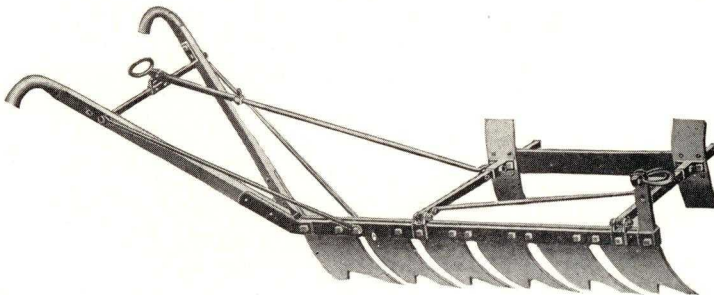
Plows Nos. 318-319, without guides, cannot be used for marking out, and are only for plowing down.

The "Ice King" Guides are substantially made and are stiff and strong.

The size of a plow indicates the final cutting depth. No plow will cut the total amount at once, but the groove must be gone over several times until the final depth has been attained.

For prices on Markers and Plows see pages 18 and 19.

ICE —DEPENDABLE— TOOLS



"ICE KING" PLOW.

8-in. 5 Teeth, with Patent Adjustable Swing Guide and clearing tooth.
Weight, with case, 120 lbs.

	Code Word	Each
No. 320.— 8-in. "Ice Kings," 5 cutting teeth and clearing tooth, with 14 to 22-in. Patent Adjustable Swing Guide....	<i>Arbutus</i>	\$55.00
No. 321.— 10-in. "Ice Kings," 5 cutting teeth and clearing tooth, with 14 to 22-in. Patent Adjustable Swing Guide.....	<i>Arch</i>	60.00
No. 322.— 12-in. "Ice Kings," 5 cutting teeth and clearing tooth, with Patent Adjustable Swing Guide (<i>made to order only</i>)	<i>Archery</i>	65.00
No. 323.— Extra Patent Adjustable Swing Guides to mark 22-in. to 30-in. or 22-in. x 32-inch, or between sizes.....	<i>Archway</i>	17.00

All Special Guides made on order only and at an advance over prices on our regular line.

Our Patent Adjustable Swing Guide for the "Ice King" is a perfect arrangement for those who need to cut more than one size of cakes.

The stock sizes are drilled to mark ice 14, 16, 18, 20 and 22 inches. Other sizes made to order.

For customers who always cut the same sized square cake, we recommend the Nos. 315, 316 and 317 styles, as non-adjustable guides are naturally firmer.

Swing Guides on plows must only be used when marking out the field of ice, and the plow must not run twice in the same groove *with the guide on*.

We file the "Ice King" with a feed to cut $1\frac{1}{2}$ -inch at a draft for an average horse, but it can be filed in a few moments to feed more for a heavier horse.

A horse in four runs, at a pace of three miles an hour, would cut the equivalent of a groove 6 inches deep and 66 feet long in one minute, thus equaling the sawing capacity of fifty men in 12-inch ice for the same time.

The "Ice King" will, therefore, save its cost in a short time.

Every Plow is provided with a wooden case to protect the teeth.

Directions for Sharpening Plows on page 17.

Instructions for ordering new plow teeth for plows, see top of page 20.

For price on Markers and Plows see pages, 18 and 19.

GIFFORD-WOOD CO.

Repairing Ice Tools

Always send repairs of winter tools in the summer, and avoid the fall rush of work at factory and possible freight delays.

All repairs should be sent to factory, at Hudson, N. Y.

We repair all kinds of Ice Tools at lowest prices. It pays the user to get his repairing done at the factory instead of allowing the local blacksmith to attempt it.

Broken teeth in Markers or Plows can be replaced with new ones. Send the machine to our factory, if possible, as we can put in the new tooth or teeth solidly, and can leave the Plow perfectly true, warranted to work. When this is not practicable, take out the broken parts of the tooth or teeth, and either express them to us, or mail us an *exact diagram* of the tooth *entire*, including the bolt-holes, made on *thick paper*, and we will return a tooth to fit.

(If paper pattern is sent,  which fits the points of the teeth of the Plows.)

Our Ice Plows and Markers, when new, are so forged that the cutting points of the teeth have the proper "gauge" or cutting width that each sized implement should have—the shallow plows cutting slightly wider grooves than the deep plows.

The Standard Scale of graduation is shown by the diagram on page 20.

Plows should, therefore, always be run in the proper order of their depths, so as to reduce side-friction of the teeth to a minimum.

Each plow also, in order to follow itself with greatest possible ease, is forged to have a slight decrease in cutting width as the tooth is worn shorter by repeated sharpenings.

Therefore, users of Markers and Plows should have their machines re-forged from time to time, to keep them in their proper cutting widths, and to have them properly re-tempered for good service.

Re-forging includes re-tempering, cutting out bottoms anew and a thorough re-finishing and painting of the Marker or Plow, making it like a new one excepting in its original depth. It is always a paying investment.

New sets of teeth in Markers or Plows which are worn too shallow to pay for re-forging, will make them equal to new ones. Prices for inserting new sets of markers or plow teeth, with clearing-tooth in plows, making them look like new, filed and painted, ready for use, will be sent when so requested on receipt of description of plows, or after the goods have been received by us.

Undrilled sets of teeth for Markers and Plows will have to be sent when Markers and Plows needing new teeth are not sent to us. As the bolt-holes in the new teeth must be exactly accurate so that they will be solidly held, we cannot drill them sufficiently perfect unless they are clamped, before the drilling is done, into the identical beams they are to occupy.

When ordered to send sets of teeth *undrilled*, we do so at a reduction of \$2.00 per set from prices for the complete work, but customers are always better satisfied to send the beams at least, here, and the complete Plow if practicable.

Always send the Guide with the Marker or Plow, that it may be fitted accurately.

Important—Mark all shipments, Gifford-Wood Co., Hudson, N. Y.

Caution—Be sure name of shipper is on every package.

ICE —DEPENDABUILT— TOOLS

DIRECTIONS FOR FILING

Ice Plows and Ice Markers Having Solid Teeth.



Illustration No. 1

First, *Level Points*.—File the points of the teeth so they will range level, using a longer straight-edge for the purpose. The middle points should be well clear of the straight-edge rather than too high.

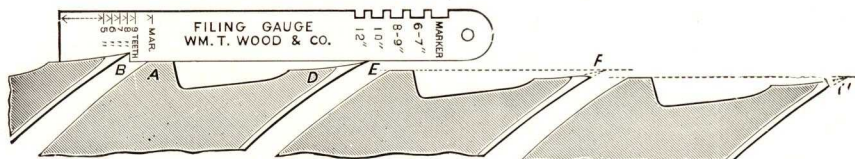


Illustration No. 2

Second, *Give Feed and Shape Points*.—File the heel (A) of each tooth and also the bottom side of each point so that both will conform to the filing gauge, as shown above. The heel can be filed a little lower if desired, showing a space over A, depending on the hind heel (I) to regulate the total cut.

Never file on the fronts of the teeth in the spaces between them (B), as the practice will produce points like H; and always avoid any tendency to round the bottoms of the points, as at F. The bottom side of each point must be slightly hollowed (as over D), and it will then fit the filing gauge (as over B), and will be sure to cut.

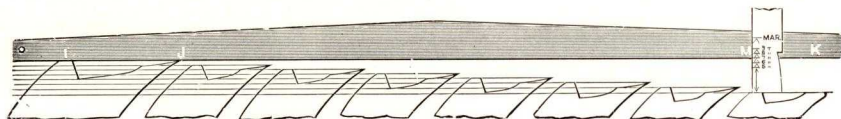


Illustration No. 3

Third, *Total Cut*.—File the *Hind Heel* (I) so that when the long straight-edge is held so as to bear on it and on the hind point (J), the front end of the straight-edge (at M) will be raised over the heel of the clearing tooth (the front heel of all) to the mark shown on filing gauge which is numbered to correspond with the number of Cutting Teeth (not counting the clearing tooth) in the plow or marker that is being filed, or to such degree as you wish the plow to cut.

This regulates the total cut of the plow, and even if the heels of the intermediate teeth are filed with more feed, so as to show a space between A and the filing gauge, the hind heel will govern the total cut.

Keep the clearing tooth (L) filed so its blunt point will be the same distance from the straight-edge (K) as its heel (M).

A good ice plow, filed according to the above directions, cannot fail to cut.

The amount of feed above recommended is right for ordinary horses, under general conditions. All our plows will stand more feed if it is desired to put on more teams.

To increase the feed, file the hind heel so as to show over the heel of the clearing tooth the cut desired (Illustration No. 3), and see that the feed of the other teeth is slightly increased to correspond.

To decrease the feed, file a little off each point.

Never file the faces or fronts (H) of the teeth except to merely turn the fine feather-edge toward the ice.

Filing the points is often avoided by rubbing the edges on the upper side with the back of a jack-knife blade in such a way that they will be turned downward, and thus "take hold."

If a plow with a good length of rope—seven or eight feet—does not "stay down" forward, and the teeth are sharp, file a little *extra feed* on the heels of the middle teeth, leaving the feed of the rear and front teeth regular, and this will cause the plow to hug down.

Filing Patent Perfection Markers and Plows with Inserted Teeth.

The same general principles apply as are given above for solid tooth plows.

The heels, however, are never to be *filed*, as the setting of the points gives the necessary feed.

The Patent Adjustable Hind Heel supplied on all our patent Perfection Plows is an instant regulator.

The points should be kept filed to conform to the shape of the filing gauge.

Combination filing gauge and standard scale of cutting widths illustrated and priced on page 20.

Remark:—By inverting this page, the parallel lines leading back from each point in Illustration No. 3 will show the cutting process of each successive tooth.

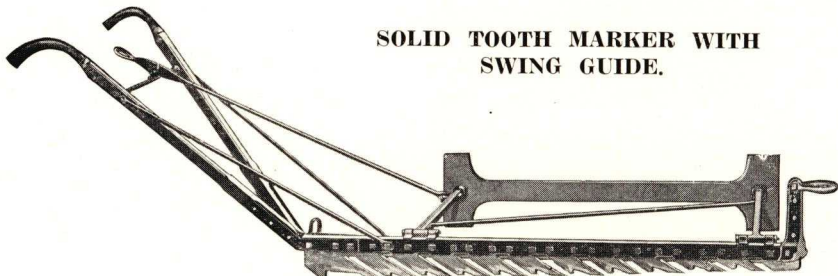
GIFFORD-WOOD CO.

Ice Markers and Plows

In keeping with our policy to standardize on ice plows, and in order to dispose of this stock quickly, we are offering our customers, at prices far below their real value, several designs of Ice Markers and Plows.

These implements are manufactured of the best materials obtainable and bear the stamp of Gifford-Wood Co. an absolute guarantee of material and workmanship.

In the future we will manufacture and list only our superior line of "King" plows. Plows furnished with or without guides.



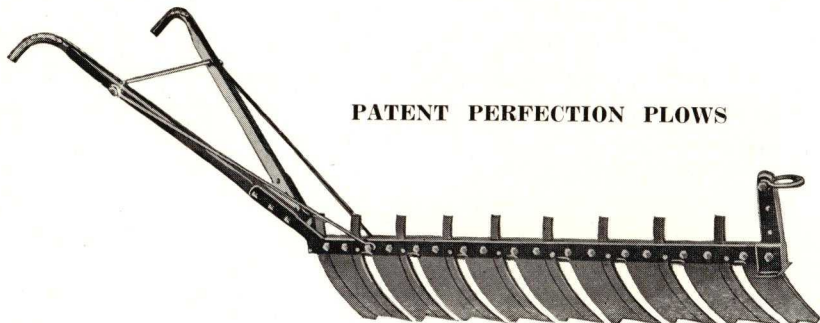
**SOLID TOOTH MARKER WITH
SWING GUIDE.**

No. 355.—4-in. Markers, 11 cutting teeth, with 22-in. Swing Guide..... List Price \$89.00
Special Price **\$40.00** Net

PATENT PERFECTION MARKERS

No. 330.—3½-in. Patent Perfection Markers, with 22-in. Swing Guide.. List Price \$125.00
Special Price **\$50.00**

If a Patent Extension Guide 22" x 32" is desired in place of the Swing Guide add \$5.00.



PATENT PERFECTION PLOWS

Patent Perfection Plows embody all the latest features of plow design and construction. The most attractive price offer ever made the ice trade. Send in your order today.

No. 337.— 6-in. Pat. Perf. Plows, 9 cutting teeth.....	List Price \$105.00	Special Price \$35.00
No. 338.— 8-in. Pat. Perf. Plows, 8 cutting teeth.....	List Price 108.00	Special Price 45.00
No. 339.— 10-in. Pat. Perf. Plows, 6 cutting teeth.....	List Price 110.00	Special Price 50.00
No. 340.— 12-in. Pat. Perf. Plows, 5 cutting teeth.....	List Price 112.00	Special Price 55.00

Swing Guides, any single width 22" to 32" \$10.00 Net.

Patent Extension Swing Guides, 22" x 32", or intermediate sizes \$14.00 Net.

Prices listed on guides are in combination when sold with the above markers and plows.

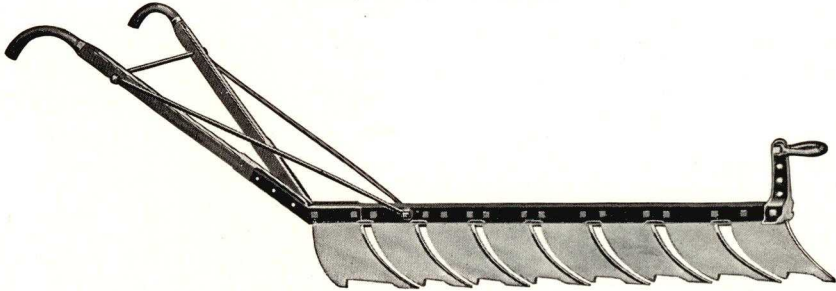
Inserted-Tooth Ice Plows and Markers do not reduce in depth by wear when kept properly filed and set, and, as a bruised point can easily be sharpened and then be quickly set to its proper level, they have steadily grown in favor, being more economical for large harvesters, and more convenient in case of damage for smaller ice-gatherers.

"King" plows illustrated and described on pages, 14 and 15.

ICE —DEPENDABUILT— TOOLS

Ice Markers and Plows

PLOW, 8 IN., 7 TEETH.



These implements are the finest of their kind made.

The teeth of our Markers and Plows are made from the best of tool steel and are tempered for hard service.

Every implement is carefully inspected before leaving our factory and is guaranteed to give the best of service.

No. 371.— 6-in. Plows, 9 cutting teeth.....	List Price	\$52.00	Special Price	\$21.00
No. 372.— 6-in. Plows, 7 cutting teeth.....	List Price	50.00	Special Price	20.00
No. 373.— 7-in. Plows, 7 cutting teeth.....	List Price	53.00	Special Price	22.00
No. 374.— 8-in. Plows, 8 cutting teeth.....	List Price	65.00	Special Price	30.00
No. 375.— 8-in. Plows, 7 cutting teeth.....	List Price	62.00	Special Price	28.00
No. 376.— 9-in. Plows, 7 cutting teeth.....	List Price	65.00	Special Price	35.00
No. 377.— 10-in. Plows, 6 cutting teeth.....	List Price	67.00	Special Price	40.00
No. 379.— 12-in. Plows, 5 cutting teeth.....	List Price	74.00	Special Price	42.00
No. 381.— 14-in. Plows, 5 cutting teeth.....	List Price	84.00	Special Price	45.00
No. 382.— 16-in. Plows, 5 cutting teeth.....	List Price	95.00	Special Price	50.00
No. 383.— 18-in. Plows, 5 cutting teeth.....	List Price	105.00	Special Price	60.00

Swing Guides, any single width, 22" to 32" \$10.00 Net.

Patent Extension Swing Guides, 22" x 32", or intermediate sizes \$14.00 Net.

Prices listed on guides are in combination when sold with the above plows.

Shallow plows make excellent markers by attaching guides to them. They will mark out practically as well as the regular markers. After marking out, the guide should be detached and the plow used to cut down with.

Do not delay ordering. Take advantage of this most remarkable sale of Gifford-Wood Ice Plows and Markers.

All shipments made promptly on receipt of order.

"King" plows illustrated and described on pages 14 and 15.

GIFFORD-WOOD CO.

TEETH FOR MARKERS AND PLOWS.

When new teeth are wanted for plain markers or plows, send to our shops at Hudson N. Y., the parts of the broken tooth if possible.

If this cannot be done, make a paper pattern of the broken tooth, being careful to show the exact location of the bolt holes, also cutting a notch in cardboard (see p. 16) that will show the exact width of the cutting point of the tooth directly ahead of the one broken. In no other way can new teeth be sent.

Address all communications on the above to our shops at Hudson, N. Y.



Showing Handle-Guard Attached to Handle.

Handle-Guards put on the handles of Markers and Plows prevent wearing when implements are inverted. A substantial case is furnished with every Marker and Plow.

	Code Word	Per Pair
No. 328.—Handle-Guards for Marker and Plow Handles.....	Argus	\$0.50
No. 329.—Handles for Markers and Plows, complete with Handle-Guards.....	Arise	3.00

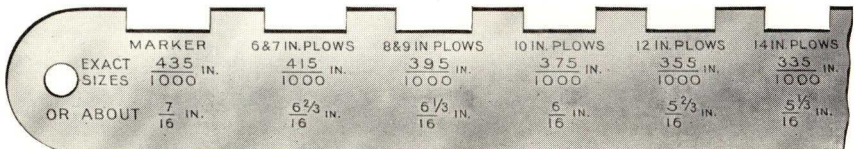
All new plows are provided with cases without extra charge.



ICE TOOL FILE.

	Code Word	Per Doz.
No. 327.—Ice Tool Files—12-in. blade.....	Argil	\$7.00

Ice Tool Files are made of the very best steel, and are used for filing Plows, Markers, Hooks, Tongs, etc.



Section of our No. 325 Filing Gauge, showing Standard Scale of cutting widths of Markers and Plows.

	Code Word	Each
No. 325.—Combination Filing Gauges, showing Standard Scale of Plow Points (see pages 16, 17).....	Ardent	\$0.50

For use of Filing Gauges, see page 17.

ICE —DEPENDABLE— TOOLS

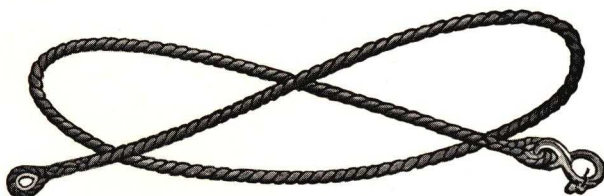


HAND PLOW, 6 IN.
Weight, with case, 18 lbs.

	Code Word	Each
No. 409.— 6-in. Hand Plows.....	<i>Hercules</i>	\$32.00
No. 410.— 7-in. Hand Plows.....	<i>Heron</i>	35.00

Used principally where ice is housed in blocks containing two or more cakes, to groove between the cakes before splitting them apart when discharging. It is useful also in making the first line on the ice-field, and in finishing out the ends of the grooves made by the horse Plows. Six-inch is the usual size.

A painted case is strapped to every Plow to protect the teeth.
When sharpening, file the teeth to feed $\frac{1}{8}$ -inch each. (See p. 17 for method.)



PLOW ROPE
Length, 8 feet.

	Code Word	Each
No. 412.— Plow Ropes, Thimble one end, Patented Hook other end.	<i>Hesper</i>	\$3.75
No. 413.— Plow Ropes, Patented Hooks both ends.....	<i>Hexagon</i>	4.50



5-FT. SAW.

Weight, with case, 4 ft., 13½ lbs.; 4½ ft., 15 lbs.; 5 ft., 16½ lbs.

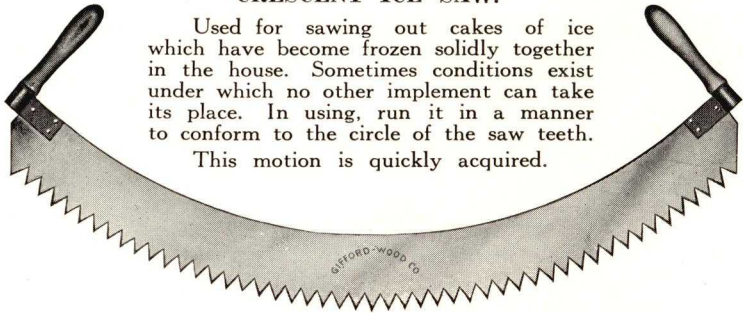
	Code Word	Each
No. 420.— Ice Saws, 4 feet, with case.....	<i>Hockey</i>	\$ 8.50
No. 421.— Ice Saws, 4½ feet, with case.....	<i>Holland</i>	9.00
No. 422.— Ice Saws, 5 feet, with case.....	<i>Hole</i>	9.50
No. 423.— Ice Saws, 5½ feet, with case.....	<i>Hood</i>	10.00
No. 425.— Ice Saws, 4 feet, without case.....	<i>Hop</i>	6.25
No. 426.— Ice Saws, 4½ feet, without case.....	<i>Horse</i>	7.00
No. 427.— Ice Saws, 5 feet, without case.....	<i>Host</i>	7.50
No. 428.— Ice Saws, 5½ feet, without case.....	<i>Hostile</i>	8.00

"Gifford-Wood Co." Ice Saws are made in the most superior manner, and are not to be compared with the cheaper kinds usually sold. The teeth are extra long, and have a large bevel, causing them to cut rapidly.

The length given above applies to the blade only. The handle is of wrought iron and reversible and measures 17 inches from the end of blade to the extreme end of the handle.

GIFFORD-WOOD CO.

CRESCENT ICE SAW.



Used for sawing out cakes of ice which have become frozen solidly together in the house. Sometimes conditions exist under which no other implement can take its place. In using, run it in a manner to conform to the circle of the saw teeth. This motion is quickly acquired.

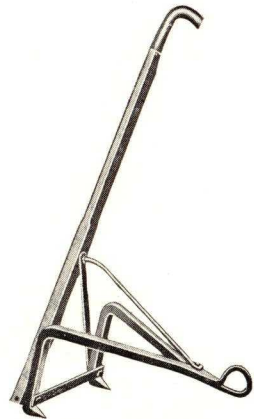
Weight, boxed for shipment, 50 lbs.; length, 6 ft.; depth, 2 ft.; blade, 8 in. wide.

No. 430.—Crescent Ice Saws.....	Code Word <i>Hock</i>	Each \$34.00
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POLE GRAPPLE.

Weight, 13 lbs.; drop, 8 in.; other sizes made to order.



JACK GRAPPLE.

Weight, 19 lbs.; drop, 8 in.

No. 433.—Pole Grapples, with handle.....	Code Word <i>Jacket</i>	Each \$16.50
No. 434.—Pole Grapples, without handle.....	<i>Jade</i>	15.25
No. 435.—Handle and Clevis for No. 433 Grapple.....	<i>Jet</i>	1.25
No. 436.—Jack Grapples.....	<i>Jewel</i>	11.25

Used to draw cakes of ice up an incline by horse or steam power in the absence of Elevator Machinery. Both styles are made of steel.

The Pole Grapple is sometimes rigged to return on an overhead wire.

The Jack Grapple is preferred by many, being more rigid.



TOWING HOOK.

Weight, 15 lbs.; length, 2 ft. 10 in.; width, 9 in.

No. 438.—Towing Hooks.....	Code Word <i>Jockey</i>	Each \$9.00
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To fasten into a float of ice when placed on its top surface. Very much more useful than a style that has to reach over the edge.

Send for our 46-page illustrated pamphlet, "How to Harvest Ice."

ICE -DEPENDABUILT- TOOLS



SPLITTING FORK, RING HANDLE.

Heavy size. Weight, 18 lbs.; length, 4 ft. 10½ in.; tines (outside), 14 in. long.
 Light size. Weight, 14 lbs. length, 4 ft. 7½ in.; tines (outside), 12 in. long.

	Code Word	Each
No. 443.—Splitting Forks, Ring Handle, heavy.....	<i>Ladder</i>	\$8.50
No. 444.—Splitting Forks, Ring Handle, light.....	<i>Lagoon</i>	8.00

Made with long steel tines, tapered so as to give great wedging power in the plow-grooves without "shelling" the ice. Their weight makes them particularly useful in breaking off floats or large sheets from the ice-field.

The heavy size is designed particularly for use on 14-inch ice, and upward, deeply grooved.

The light size has tines adapted to wedge in grooves plowed but 6 or 7 inches deep.



CALKING BAR, HOLLOW HANDLE.

Weight, 8 lbs.; length, 4 ft. 3 in.; blade, 14 in. x 4¾ in.

	Code Word	Each
No. 457.—Calking Bars, hollow handle, 1 in. diameter.....	<i>Lawn</i>	\$4.75

Long triangular blade, for deepest grooves, gas-pipe handle.

Used to calk the ends of the grooves on the field and on the floats before they are detached, with the chips made in grooving, in order to prevent the water from running in and freezing up the grooves.

It is very important that all ends of grooves be well calked, so that the splitting off can be well done without breaking the cakes.

Many harvesters are not particular enough about this, and have too small a supply of Calking Bars.



BAR CHISEL

Weight, 15½ lbs.; length, 4 ft. 7 in.; blade, 12 in. x 4¾ in.

	Code Word	Each
No. 458.—Bar or Packing Chisels, steel handles.....	<i>Leaf</i>	\$7.25

Made with a long blade and beveled on one side only. Used to cut around the cakes in getting ice out of the house, and for trimming off any unevenness of the blocks when storing ice in the house, also for spacing and straightening the seams.

All Special Bars and Chisels made on order only and at advance over prices on our regular line.

Write for Ice Machinery Catalog No. 1226.

GIFFORD-WOOD CO.



SUMMER BAR, CURVED BLADE, HEAVY.

Weight, 17 lbs.; length, 4 ft. 4 in.; blade, $10\frac{1}{2} \times 4\frac{3}{4}$ in.

	Code Word	Each
No. 460. — Summer Bars, heavy, curved blade, polished handle...	<i>Lecture</i>	\$10.00
No. 460 $\frac{1}{2}$. — Summer Bars, heavy, straight blade, polished handle...	<i>Ledger</i>	10.00
No. 463. — Summer Bars, heavy, curved blade, painted handle...	<i>Legal</i>	9.00
No. 463 $\frac{1}{2}$. — Summer Bars, heavy, straight blade, painted handle...	<i>Legend</i>	9.00

Summer Bars are used in some localities for the double purpose of cutting around and striking up ice in the house.

All blades are of solid tool steel. The handles are made of a special analysis steel and are unbreakable.



SUMMER BAR, CURVED BLADE, LIGHT.

Weight, 16 lbs.; length, 4 ft. 3 in.; blade, $9\frac{1}{2} \times 4\frac{1}{2}$ in.

	Code Word	Each
No. 461. — Summer Bars, light, curved blade, polished handle....	<i>Leopard</i>	\$10.00
No. 461 $\frac{1}{2}$. — Summer Bars, light, straight blade, polished handle...	<i>Lettuce</i>	10.00

This light style is sometimes preferred. Blades solid tool steel.



STARTING CHISEL.

Weight, 14 lbs.; length, 4 ft. 7 in.; blade, $10 \times 2\frac{1}{2}$ in.

	Code Word	Each
No. 465. — Starting Chisels (Regular Pattern).....	<i>Lexicon</i>	\$6.50

The Starting Chisel, or Striking-Under Bar, is made for the purpose of starting up the blocks of ice in the house after they have been cut around with the Bar Chisel or Summer Bar.

Made of steel throughout, with round handle. The regular pattern has a narrow blade with gradual, upward curve on under side.

This bar is a favorite one for "wetting down" a fall of snow, on account of its curve.



STARTING CHISEL, OMAHA PATTERN.

Weight, 14 lbs.; length, 4 ft. 7 in.; blade, $10 \times 2\frac{3}{8}$ in.

	Code Word	Each
No. 466. — Starting Chisels (Omaha Pattern).....	<i>Liberty</i>	\$6.50

Made with decided angle at the bend, and with wider blade than regular pattern, perfectly straight on bottom side without upward curve.

Write for Ice Machinery Catalog No. 1226.

ICE -DEPENDABUILT- TOOLS



PATENT FLOOR SHAVER

Weight, 6 lbs.; length, 5 ft. 1 in.; blade 6 in. wide.

No. 470.—Patent Floor Shavers, 5 teeth.....	Code Word <i>Locate</i>	Each \$4.00
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Floor Shavers are very useful in leveling a floor of ice in house or vessel.

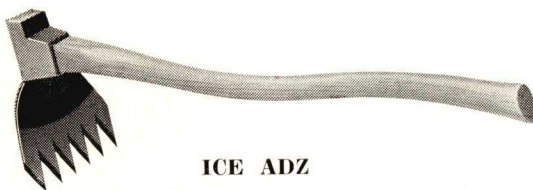


FLOOR LEVELER

Weight, 15 lbs.; cutting width, 9 in.; length of teeth, 12 in.

No. 470½.—Floor Levelers.....	Code Word <i>Lock</i>	Each \$11.00
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Our new and improved Floor Leveler is adapted to do rapid work where the ice requires a large amount of leveling to be done. Its weight and construction give it a facility for heavy work that is not equalled by any other tool. It is of particular advantage where ice is packed on edge.



ICE ADZ

Weight, 5 lbs.; width of blade, 6¾ in.

No. 471.—Ice Adzes, with toothed edge, handled.....	Code Word <i>Locust</i>	Each \$7.50
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Ice Adzes are used for leveling ice-floors.



SPLITTING CHISEL, KNOB HANDLE

Weight, 13½ lbs.; length, 4 ft. 6 in.; blade, 10½ x 3 in.

No. 474.—Splitting Chisels, Knob Handle, steeled blade.....	Code Word <i>Lodge</i>	Each \$4.25
No. 475.—Splitting Chisels, Knob Handle, all tool steel blade (marked "Extra").....	<i>Loment</i>	4.50



SPLITTING CHISEL, RING HANDLE

Weight, 14 lbs.; length, 4 ft. 6 in.; blade, 10½ x 3 in.

No. 476.—Splitting Chisels, Ring Handle, steeled blade.....	Code Word <i>Lotus</i>	Each \$4.50
No. 477.—Splitting Chisels, Ring Handle, all tool steel blade (marked "Extra").....	<i>Loyal</i>	5.00

Used to split off single cakes either in the canal or on the platform. Handy for general use, with a blade of uniform taper on each side.

GIFFORD-WOOD CO.



CANAL NEEDLE BAR, RING HANDLE.

Weight, Canal size, 11 lbs.; Field size, 15 lbs.; length, 4 ft. 10½ in.

	Code Word	Each
No. 484. — Canal Needle Bars, Ring Handle, 1 in. steel.....	<i>Magic</i>	\$4.50
No. 484½. — Field Needle Bars, Ring Handle, 1¼ in. steel.....	<i>Magnate</i>	5.25

The canal Needle Bar is a light tool for splitting off cakes in the canal, and where the plow-grooving is well done it is effective.

It will do most excellent service in sinking a field of ice, as it makes a very small hole.



NEEDLE BAR, RING HANDLE, 2-TINED.

Weight, 15 lbs.; length, 4 ft. 10½ in.

	Code Word	Each
No. 485. — Needle Bars, Ring Handle, 2-Tined.....	<i>Maid</i>	\$9.00

When plow-grooves are partially frozen, the two oval tines break better than a single-tined bar.



NEEDLE BAR, RING HANDLE, 3-TINED.

Weight, 16½ lbs.; length, 4 ft. 10½ in.

	Code Word	Each
No. 486. — Needle Bars, Ring Handle, 3-Tined.....	<i>Major</i>	\$10.00

The three oval tines furnish much wedging pressure in the groove, and where the ice, is not well plowed or has become frozen up, it is very effective for separating strips or cakes.

This bar is one of the very best for use on the float or in the canal.



SEPARATING CHISEL, KNOB HANDLE.

Weight, 14 lbs.; length, 4 ft. 6 in.; blade, 16 x 3¼ in.

	Code Word	Each
No. 495. — Separating Chisels, Knob Handle, all steel blade.....	<i>Manatee</i>	\$4.50
No. 496. — Separating Chisels, Ring Handle, all steel blade.....	<i>Mango</i>	4.75

This Chisel has a long, thin blade, and is for separating cakes of ice in the house when packed on edge.



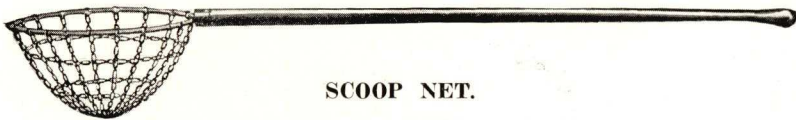
ELEVATOR FORK.

Length, 6 ft. 7 in.; tines, 6 in. long.

	Code Word	Each
No. 502. — Elevator Forks.....	<i>Mildew</i>	\$3.50

This article is deemed better than an Ice Hook for feeding ice to the elevator, as two pushing points give better control of the cake. The hook affords a means of holding back the ice, if necessary.

ICE —DEPENDABUILT— TOOLS

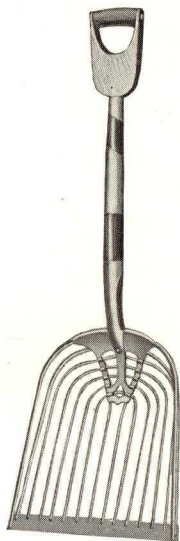


SCOOP NET.

Weight, 7 lbs.; length, 5 ft.; hoop, 15 in. diam.

No. 505.—Scoop Nets.....	Code Word <i>Mineral</i>	Each \$6.00
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These are made as light as possible by the use of steel chain.
Used to remove from the water small pieces of ice which obstruct the channel.
It does not freeze and close up the openings, as it is reversed each time it is emptied.



No. 506
Sieve Shovel.

SIEVE SHOVEL.

Weight, 7 lbs.; size of Shovel, 17 x 14 in.

No. 506.—Sieve Shovels, 40-	Code Word	Each
inch handle.....	<i>Minor</i> \$2.75

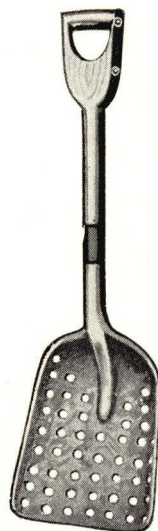
The wire shovel is very useful in clearing the canal of chips and pieces of ice.

PERFORATED ICE SCOOPS.

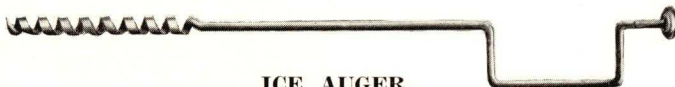
Weight, 6 lbs.; size of Scoop, 17 in. long by 14 in. wide.

No. 507.—Perforated Ice Scoops, Code Word	Each
30-inch handle.....	<i>Minuet</i> \$3.25

Although not as quick a strainer as the No. 506 Sieve Shovel, this Scoop will stand hard usage.



No. 507
Perforated
Ice Scoops.



ICE AUGER.

Weight, 6 lbs.; length 4 ft. over all.

No. 510.—Ice Augers, 1½ in.....	Code Word <i>Monitor</i>	Each \$8.00
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Used in making holes through which to measure the ice, also to insert pins for stretching lines, towing floats, and for other purposes.



MEASURING ROD.

No. 512.—Measuring Rods, polished, numbered to 24 inches.....	Code Word <i>Monogram</i>	Each \$1.50
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This iron measure catches on the bottom side of the hole made by the Ice Auger and the thickness of the ice is at once shown. Marked off by 1-inch notches.

GIFFORD-WOOD CO.



Showing Rico Icing Hook in use after pulling ice off the conveyor at left, preparatory to icing cars.



Breaking up cakes of ice with Rico Icing Hook.



Handling ice over car ice run to car bunkers.



Breaking up cakes of ice with Single Tined Bunker Bar.

*Illustrated
on opposite page.*

ICE —DEPENDABLE— TOOLS



TAMPING POLE.

No. 516.—Seasoned Hickory. Weight, 14 lbs. Length 9 ft. Code Word *Motor* Each \$5.25

The most commonly used and efficient tool for tamping down crushed ice in car bunkers. Made of seasoned hickory.



BUNKER BAR, PIPE HANDLE, SINGLE TINED.

Weight, 8 lbs.; length over all, 6 ft. 1 in.; Tine 10½ in.

No. 517.—Bunker Bar, pipe handle, single tine. Code Word *Mouse* Each \$2.50

This single tined bar is used for the same purpose as No. 517A.

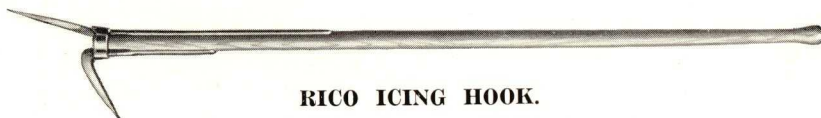


BUNKER BAR, PIPE HANDLE, TWO TINED.

Weight, 8¾ lbs.; length over all, 6 ft. 1 in.; Tines, 10½ in.

No. 517A.—Bunker Bar, pipe handle, 2-Tined. Code Word *Muffin* Each \$3.50

A very popular tool in some localities. Useful in breaking up cakes and chunks of ice in car bunkers. This bar made without hook prevents possible injury to the lining of the bunkers.

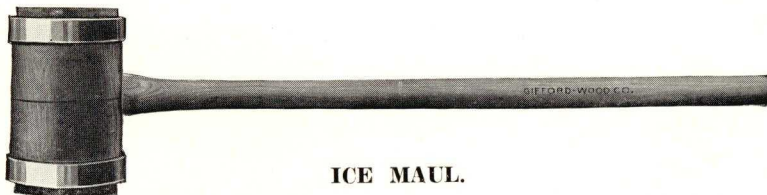


RICO ICING HOOK.

Weight, 54 lbs. doz.; length over all 5 ft.

No. 517F.—Rico Icing Hook, 4 feet over all. Code Word *Muse* Per Doz. \$29.00
Rico Icing Hook, 4½ feet over all. Code Word *Mushroom* 30.00

The Rico Icing Hook is used on car icing platforms for pulling ice off conveyors and for breaking up cakes preparatory to icing cars.



ICE MAUL.

No. 518.—Weight, 8 lbs. Head 8½ x 4¾. Length of Handle, 31 in. Code Word *Music* Each \$5.00

An effective tool for breaking up cakes of ice into small pieces subsequent to icing cars. The head is made of seasoned hickory and has two ¼" x 1" iron bands shrunk on either end to prevent splitting.

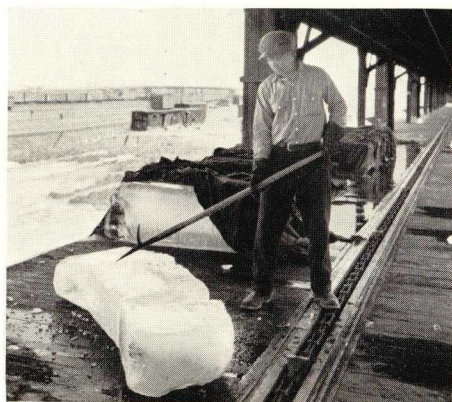
Regular Style Icing Hooks Shown on Page 31.

GIFFORD-WOOD CO.

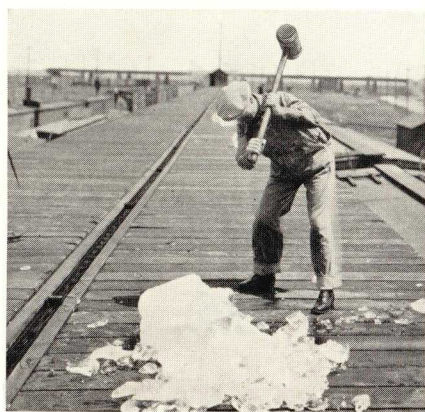


The Icing Hook made with a square steel splitting point and special hook, is adaptable for car icing.

Breaking up cakes of ice after pulling off single chain conveyor.



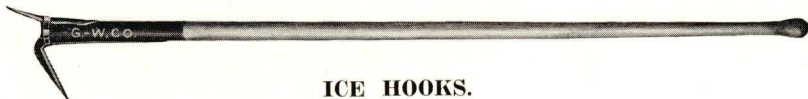
Chunks of ice being stored in car bunkers.



Breaking up cakes of ice with Ice Maul before loading into car bunkers.

See pages 29 and 31.

ICE —DEPENDABUILT— TOOLS

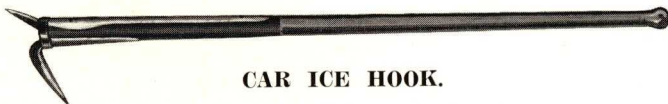


ICE HOOKS.

Weight of $4\frac{1}{2}$ -ft. Ice Hooks, per dozen, 45 lbs.
Add about 6 lbs. per ft. to get weight per dozen of longer sizes.

Ice Hooks are manufactured of the best stock, and are heavily steeled, making them very stiff and strong. The Puller can be bent cold to any angle desired.

						Code Word	Per Doz.
No. 520. — Ice Hooks,	3 feet, Boston Pattern Wide Points.....					<i>Narrate</i>	\$18.25
	3½ feet, Boston Pattern Wide Points.....					<i>Narrow</i>	19.25
	4 feet, Boston Pattern Wide Points.....					<i>Native</i>	20.75
	4½ feet, Boston Pattern Wide Points.....					<i>Nature</i>	21.25
	5 feet, Boston Pattern Wide Points.....					<i>Navigate</i>	22.25
	6 feet, Boston Pattern Wide Points.....					<i>Nebula</i>	24.00
No. 520 ¼.— Ice Hooks,	8 feet, Floating Pattern.....					<i>Necktie</i>	30.00
	12 feet, Floating Pattern.....					<i>Need</i>	42.00
	16 feet, Floating Pattern.....					<i>Needlework</i> ..	62.00
No. 520 ½.— Ice Hooks,	3 feet, New York Pattern Narrow Points					<i>Neglect</i>	18.25
	3½ feet, New York Pattern Narrow Points					<i>Neighbor</i>	19.25
	4 feet, New York Pattern Narrow Points					<i>Nephew</i>	20.75
	4½ feet, New York Pattern Narrow Points					<i>Nettle</i>	21.25
	5 feet, New York Pattern Narrow Points					<i>Nibble</i>	22.25
	6 feet, New York Pattern Narrow Points					<i>Noonday</i>	24.00



CAR ICE HOOK.

Weight of 4-ft. Car Hooks, per dozen, 45 lbs.

		Code Word	Per Doz.
No. 521 $\frac{1}{2}$. — Car Hooks, $3\frac{1}{2}$ feet.....		<i>Oar</i>	\$26.00
No. 522. — Car Hooks, 4 feet.....		<i>Oarsmen</i>	27.00
No. 524. — Car Hooks, $4\frac{1}{2}$ feet.....		<i>Oatmeal</i>	27.50

Made the same as regular Ice Hooks, excepting that the Pusher strap-iron extends 18 inches down the handle, to strengthen and protect the wood for car or boat use.



ICING HOOKS.

Weight of 5-ft. Icing Hooks, wood handles, per dozen, 63 lbs.
Weight of 5-ft. Icing Hooks, pipe handles, per dozen, 125 lbs.

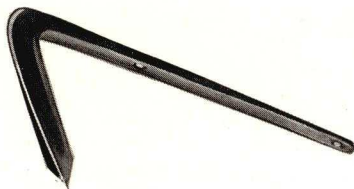
		Code Word	Per Doz.
No. 524 $\frac{1}{2}$. — Icing Hooks, wood handles, 5 feet over all.....		<i>Obey</i>	\$43.00
No. 524 $\frac{3}{4}$. — Icing Hooks, wood handles, $5\frac{1}{2}$ feet over all.....		<i>Object</i>	43.50
No. 524C. — Icing Hooks, pipe handles, 5 feet over all.....		<i>Oblong</i>	56.50
No. 524D. — Icing Hooks, pipe handles, $5\frac{1}{2}$ feet over all.....		<i>Oboe</i>	57.50

These have a square steel splitting iron or breaker, 6 inches long, in place of a pusher iron. The wood handle is inserted its full size into the socket part of the heavy, solid breaker and hook.

GIFFORD-WOOD CO.



Inside View



Outside View

BOSTON PATTERN PULLER, WIDE POINT.

Weight, per dozen, 11 lbs.



Inside View



Outside View

NEW YORK PATTERN PULLER, NARROW POINT.

Weight, per dozen, 10½ lbs.



STANDARD PATTERN PUSHER.

Weight, per dozen, 5 lbs.



RING.

For 1½ in. handle and irons.
Weight, 9 to a lb.



RIVETS, COUNTERSUNK HEAD.

2½ in. x No. 5 wire; weight, 40 to a lb.



RIVETS, TRUSS HEAD.

1¾ in. x No. 5 wire; weight, 44 to a lb.

- No. 530. — Pullers for Ice Hooks, Boston Pattern, ¾-in. point...
 No. 531. — Pullers, for Ice Hooks, New York Pattern, ½-in. point.
 No. 533. — Pushers (or shovers), for Ice Hooks, Standard Pattern.
 No. 533½. — Pushers, for Car Ice Hooks...
 No. 534. — Rings, for Ice Hooks...
 No. 536. — Rivets, for Ice Hooks, countersunk head...
 No. 537. — Rivets, for Ice Hooks, truss head...
 No. 538. — Handles, for Ice Hooks...

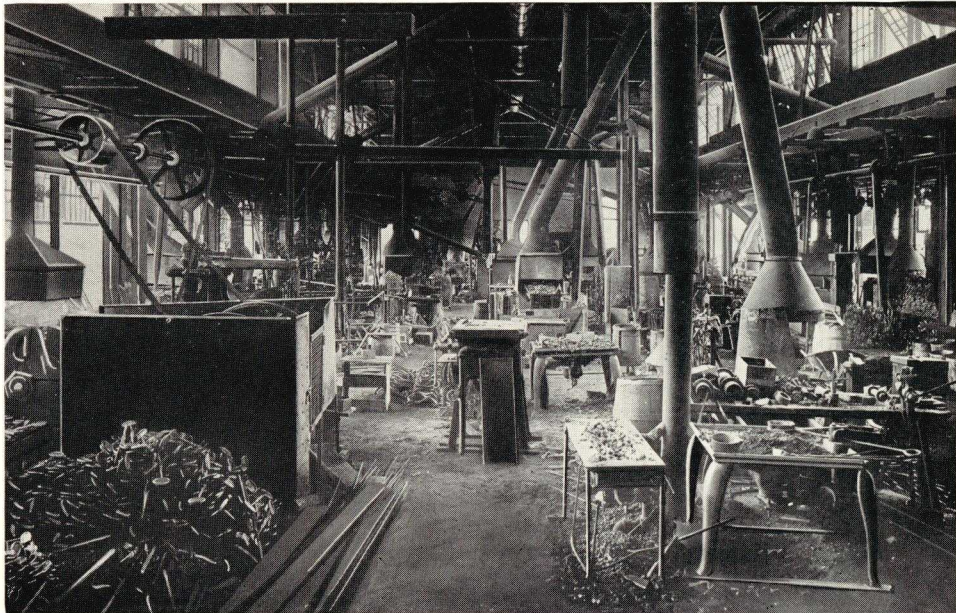
Code Word	Per Doz.
<i>Odeon</i>	\$ 7.50
<i>Opine</i>	7.50
<i>Orator</i>	4.25
<i>Oratorio</i>	10.00
<i>Orbit</i>60
<i>Oread</i>12
<i>Ornate</i>12
<i>Owl</i> ...	price on app.

Ice Hook Handles are made of the best selected second growth ash—and are as fine as can be bought. Send for prices.

No ice tool is put to a more severe test by ice dealers than the Ice Hook. Ours will stand reasonable abuse on the run by the inexperienced, and will meet the most critical exactions of the "old hand," who wants perfect temper and proper shape.

Write for Ice Machinery Catalog No. 1226.

ICE -DEPENDABUILT- TOOLS



G-W ICE TOOL FORGE SHOP

Our Forge Shop is equipped with the most modern forges, hammers, dies, etc. and in which the most experienced workmen are employed.



HEAVY GRINDING ROOM.

In one of our grinding rooms pictured above, the highest grade of grind stones are used and which is just another step in the production of quality Ice Tools.

GIFFORD-WOOD CO.



BOSTON TONGS.

While we manufacture a complete line of Ice Tools, we desire to convey to our customers the true points to consider when buying Ice Tongs.

In the illustration above we show our Hollow Handle Boston Tong and the features we mention below apply to all tongs of similar design.

Handles of light pipe made smooth and perfect in shape by special process. The method used in forging the handles to the bows makes them practically unbreakable.

Holes drilled smooth, material around holes hard for long wear.

Special rivet carefully assembled.

Bows are the stiffest, toughest, strongest yet produced, the steel made especially for us for this purpose.

Automobile gear heat treatment used in bows.

Points well shaped and tempered for service by most modern methods.

Lifting capacity by test 1000 lbs.



PATENT LINK TONGS.

Our Patent Link Tongs with the new link described below, has grown fast in popularity in the location where they are most commonly used. This is termed a single handled tong and is used with one hand only, to either grasp or release a cake of ice. The new solid steel link obviates any chance of the handle twisting. The alignment of this tong is perfect and one that the iceman uses for its convenience.



The Patent Links used in this Tong are punched out of a piece of solid steel. These special links may be subjected to any abuse without breaking. Note illustration above showing one of these links bent double. **The toughest link made.**

Gifford-Wood Co. Stamp is for Quality First

ICE —DEPENDABUILT— TOOLS

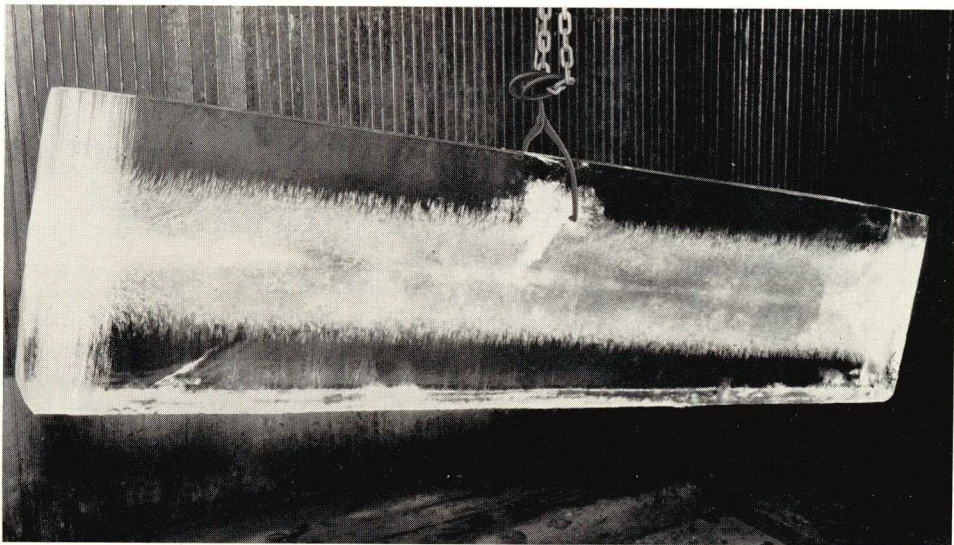


The illustration above shows ice being delivered on edge from the tank room, through a chute to the storage room and how the ice is up-ended.

The last operation not only requires skill, but Ice Tools that are suitable for the purpose.

G-W DEPENDABUILT Ice Tongs were selected, as not only best for the purpose, but on account of their high quality, design and workmanship, and made by the oldest Ice Tool Makers.

The Eastern and Utah Edging-Up Tongs shown on page 38, were primarily designed for edging-up ice, but some companies use other styles of our hand tongs for this work.



In this ice plant where 600 pound cakes of ice are manufactured, Gifford-Wood Ice Tongs are used and where quality and strength are essential factors.

GIFFORD-WOOD CO.



Boston Tongs.

Extra Hollow Handle.
Points, $\frac{3}{4}$ in. wide.



Boston Tongs.

Special Hollow Handle.
Lacquered. Points, $\frac{3}{4}$ in. wide.



New York Tongs.

Hollow Handle.
Narrow Points.

		Code Word	Per Doz.
No. 542. — Boston, extra hollow handle, 13 in., 35 lbs. doz.....		<i>Pancake</i>	\$21.00
Boston, extra hollow handle, $14\frac{1}{2}$ in., 39 lbs. doz.....		<i>Panic</i>	21.50
Boston, extra hollow handle, $16\frac{1}{2}$ in., 40 lbs. doz.....		<i>Pantile</i>	22.00
Boston, extra hollow handle, 20 in., 54 lbs. doz.....		<i>Painter</i>	25.00
Boston, extra hollow handle, 24 in., 61 lbs. doz.....		<i>Palace</i>	25.50
Boston, extra hollow handle, 26 in., 72 lbs. doz.....		<i>Pallet</i>	26.00
No. 542 $\frac{1}{2}$. — Boston, special hollow handle, 15 in., lacquered.....		<i>Paradox</i>	25.00
No. 545. — New York Tongs, hollow handle, $14\frac{1}{2}$ in., 36 lbs. doz..		<i>Pardon</i>	24.00
New York Tongs, hollow handle, 17 in., 40 lbs. doz..		<i>Parent</i>	24.50
New York Tongs, hollow handle, 20 in., 45 lbs. doz..		<i>Parget</i>	28.00
New York Tongs, hollow handle, 24 in., 60 lbs. doz..		<i>Park</i>	28.50

The bows of tongs should not be notched for purposes of identification, as this practice weakens them. We furnish Branding Irons and Steel Stamps for marking Tools. Write for prices.

Delivery Tongs are the *very best models* which experience can produce, and their quality cannot be excelled. The points, which are of finest steel, are carefully tempered to hold sharp edges and for long service.

The span is measured when they are open as wide as possible, no allowance being made for the hands.

Boston Tongs, extra hollow handle have gas-pipe handles of special quality, $\frac{7}{8}$ -in. diameter. They are very popular, being stiffer and much more comfortable for the hand. Special steel is used in the bows and points entire.

Boston Special Tongs have hollow handles of a little larger opening than the extra. They are always furnished lacquered, and are the exact style used on delivery wagons in Boston and vicinity.

This grade is postively the stiffest kind of tongs that can be made, and is recommended by us very decidedly to all who want absolutely first-class tongs for severe use.

The Boston Pattern of hand tongs made in "Extra H. H." grades, is far more universally used than any other style. It catches the ice low on the sides, and, having short shanks, raises the cake clear from the ground, bringing the weight close to the hand. On this account the shape is gradually superseding other patterns.

The New York Tongs are made with hollow handles and with narrow points.

All Special Tongs made on order only and at an advance over prices on our regular line.

ICE —DEPENDABUILT— TOOLS



Car Tongs.
Hollow Handle.
Points, $\frac{3}{4}$ in. wide.



Manhattan Tongs.
Hollow Handle.
Wide Points.



Philadelphia Tongs.
Hollow Handle.
Narrow Points.



Milwaukee Tongs.
Hollow Handle.
Thin Points.

	Code Word	Per Doz.
No. 544. — Car or Corner Tongs, hollow handle, 12 in.	<i>Pecan</i>	\$22.50
No. 546 $\frac{1}{2}$. — Manhattan Tongs, hollow handle, 14 $\frac{1}{2}$ in., 35 lbs. doz.	<i>Passport</i>	22.50
No. 547. — Philadelphia Tongs, hollow handle, small size, 14 in., 33 lbs. doz.	<i>Patella</i>	26.00
Philadelphia Tongs, hollow handle, medium size, 17 in., 37 lbs. doz.	<i>Patent</i>	26.50
No. 549 $\frac{1}{2}$. — Milwaukee Tongs, hollow handle, 11 in., 48 lbs. doz.	<i>Pearl</i>	33.00

Car or Corner Tongs are used in "carrying ice" by men who grasp each cake at opposite corners, and are stoutly made of special-steel throughout.

Hollow Handle Manhattan Tongs have the Boston Hollow Handles with short shanks, a modified pattern of bows, and wide points.

Philadelphia Tongs have been re-designed and are now made with hollow handles. The weld where the bows join has been eliminated, the bows now being made of one piece of special steel.

Milwaukee Tongs are very popular in the city from which their name is derived.



Cincinnati Chain Tongs.
Thin Points.



Kansas City Chain Tongs.
Thin Points.



Patent Link Tongs.
Thin Points.



Indiana-Ohio Chain Tongs.
Single Link.
Thin Points.



Detroit Chain Tongs.
Thin Points.

	Code Word	Per Doz.
No. 550. — Cincinnati Chain Tongs, 12 in., 21 lbs. doz.	<i>Pendant</i>	\$17.75
Cincinnati Chain Tongs, 15 in., 24 lbs. doz.	<i>Pension</i>	18.50
No. 550 $\frac{1}{2}$. — Kansas City Chain Tongs, 12 in., 28 lbs. doz.	<i>Perch</i>	17.75
Kansas City Chain Tongs, 15 in., 30 lbs. doz.	<i>Peril</i>	18.50
No. 551. — Patent Link Tongs, 12 in., 28 lbs. doz.	<i>Permit</i>	17.75
Patent Link Tongs, 15 in., 30 lbs. doz.	<i>Person</i>	18.50
No. 551 $\frac{1}{2}$. — Indiana-Ohio Chain Tongs, single link, 12 in., 25 lbs. doz.	<i>Pet</i>	17.75
No. 551 $\frac{1}{2}$. — Indiana-Ohio Chain Tongs, single link, 15 in., 28 lbs. doz.	<i>Petal</i>	18.50
No. 552. — Detroit Chain Tongs, 13 in., 21 lbs. doz.	<i>Petition</i>	18.00

All Chain tongs and Patent Link tongs are now furnished with our special Pipe Handles. The Kansas City style is heavier than the Cincinnati pattern, and is more generally used by the Ice handlers who like "chain hooks."

Patent Link Tongs are the most popular of this group.

The Indiana-Ohio Tong assembled with a single link is preferred by many.

Detroit Tongs have special points and small Pipe Handles and are lighter in weight than any of this group of tongs.

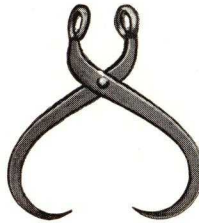
GIFFORD-WOOD CO.



New London Tongs.
Hollow Handle.
Thin Points.



Springfield Tongs.
Hollow Handle.
Special Narrow Points.



Buffalo Tongs.
Chisel-shaped Points.
Weight, 2½ lbs.



Ice Cream Can Tongs.

			Weight, 37 lbs. per doz.
		Code Word	Per Doz.
No. 548. — New London Hollow Handle, 13 in., 32 lbs. doz....		<i>Patron</i>	\$21.00
New London Hollow Handle, 14½ in., 36 lbs. doz....		<i>Pauper</i>	21.50
New London Hollow Handle, 16 in., 40 lbs. doz....		<i>Peach</i>	22.00
No. 553. — Springfield Tongs, 15½ in., 25 lbs. doz.....		<i>Pelt</i>	22.50
No. 555. — Buffalo Tongs, 12 in., weight, 28 lbs. doz., <i>black</i>		<i>Pertain</i>	19.50
No. 555½. — Buffalo Tongs, 14 in., weight, 32 lbs. doz., <i>black</i>		<i>Pewter</i>	20.00
No. 581. — Ice Cream Can Tongs, hollow handle.....		<i>Plate</i>	26.00
No. 581½. — Ice Cream Can Tongs, plain solid handle.....		<i>Platter</i>	22.00

New London Tongs, made of special steel combine Boston Hollow Handles with Cincinnati shaped bows, having points without heels.

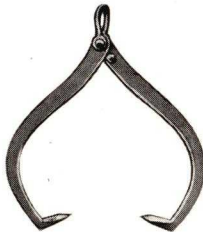
Springfield Tongs have light hollow handles and special narrow points. The bows are drawn thin, thereby reducing the weight without effecting the strength. A sturdy tong for wagon and household use. An ideal tong for handling 25 and 50 pieces of ice.

Buffalo Tongs have a special, small and narrow, solid handle without swell, adapted to being grasped with the fingers, *underneath* the ring instead of *in* it.

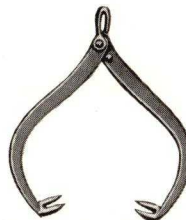
Ice Cream Can Tongs are used for lifting Ice Cream Cans in and out of Ice Tubs, Wagons, etc., without denting or puncturing. Life of can increased 100%.



Eastern Edging-up Tongs.
Weight, 4 lbs.
Narrow Points.



Lowering Tongs.
Single Point.
Points, ¼ in. wide.
Weight, 5½ lbs.



Lowering Tongs.
Double Point.
Broad Points.
Weight, 7 lbs.



Utah Edging-up Tongs.
Weight, 4 lbs.
Narrow Points.

		Code Word	Per Doz.
No. 561½. — Eastern Edging-up Tongs, hollow handles, 26 in.....		<i>Pieplant</i>	\$26.00
No. 563. — Utah Edging-up Tongs, hollow handles, 19 in.....		<i>Pillar</i>	26.00
		Each	
No. 570. — Lowering Tongs, Single Point, 24-inch span.....		<i>Pitcher</i>	\$ 3.00
No. 571. — Lowering Tongs, Single Point, 17-inch span.....		<i>Placard</i>	2.75
No. 574. — Lowering Tongs, Double Point, 24-inch span.....		<i>Planet</i>	11.00
No. 575. — Lowering Tongs, Double Point, 17-inch span.....		<i>Plank</i>	10.50

Edging-up Tongs are used by packers who edge up their ice when storing.

The Utah pattern catches the cake on the side and top, and is considered a more handy style by some.

Lowering Tongs are designed for work where only a small space overhead exists.

ICE —DEPENDABUILT— TOOLS



ARROWHEAD MILLS, INC.,
Fulton, N. Y.



Boston Hoisting Tongs.
Adjustable Claw.

Weight, 26 lbs.



Boston Hoisting Tongs.
Solid Claw.

Weight, 25 lbs.

Hoisting Tongs of special design have a wide range of application and the uses they can be put to is unlimited. Used in many industrial plants and elsewhere for handling bales, boxes, kegs and packages of various description and sizes.

	Code Word	Each
No. 584.—Boston Hoisting Tongs, Adjustable Claws, 30-inch.....	<i>Playful</i>	\$25.50
No. 586.—Boston Hoisting Tongs, Solid Claws, 30-inch.....	<i>Plenty</i>	30.00

Our Adjustable Claws are forged from steel, and are of skeleton shape, giving a sure grip on uneven surfaces.

GIFFORD-WOOD CO.



Market Tongs.
Points $\frac{3}{4}$ in. wide.
Single Points.
Weight, 8 lbs.



Drag Tongs.
Weight, 8 lbs.
Points, $\frac{3}{4}$ in. wide.



Market Tongs.
Broad Points.
Double Point.
Weight, $8\frac{1}{2}$ lbs.

- No. 578.—Market Tongs, Single Point, 24-inch span.....
No. 579.—Market Tongs, Double Point, 24-inch span.....

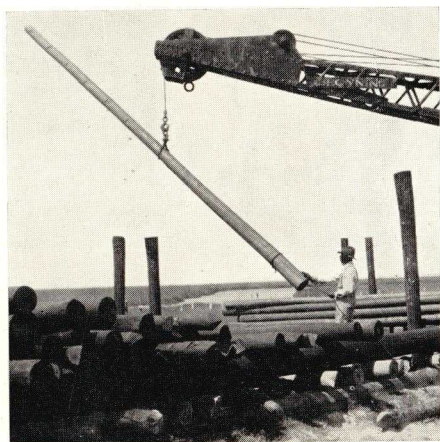
- No. 565.—Drag Tongs, hollow handles.....

Code Word	Each
<i>Pillow</i>	\$ 5.00
<i>Pimento</i>	12.00
Code Word	Per Doz
<i>Pinnacle</i>	\$31.00

Market Tongs are a convenient and handy style where sufficient head room exists.

Drag or Stowing Tongs are much used for moving ice in the houses in the summer.

The regular pattern has handles which measure 12 inches between rivet and under side of ring.



Many industrial concerns find use for Ice Tongs as will be seen in the above illustrations. (See page 39 also).

If special tongs or other tools are required, we will furnish a sketch and quote prices upon receiving detailed information from our customers.



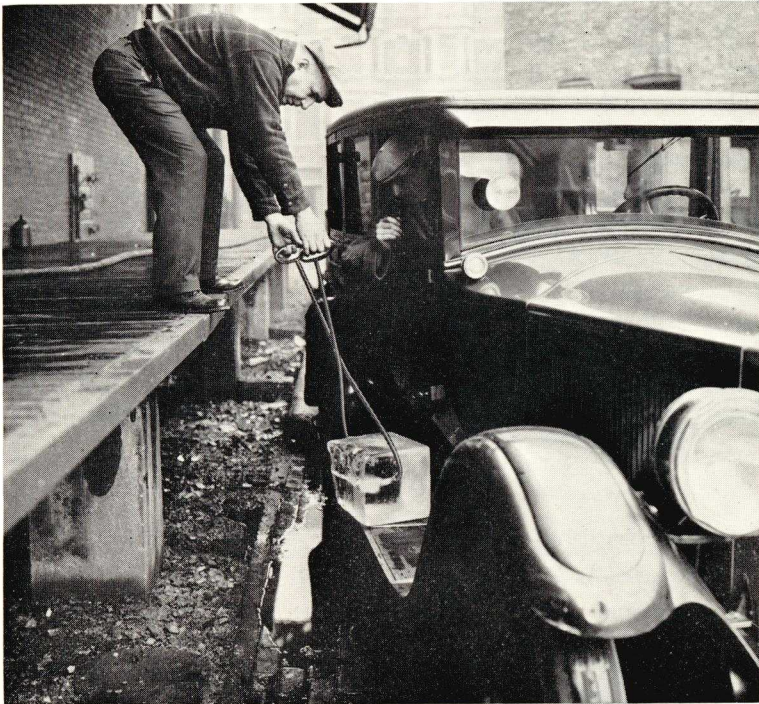
No. 569.—Platform Delivery Tongs, hollow handles



**Platform Delivery
Tongs.**

Narrow Points.
Weight, 6 lbs.

Code Word	Per Doz.
Pitch	\$34.00



Since the advent of Jitney Stations, Platform Delivery Tongs have become indispensable. Hundreds of consumers go to these stations for their own supply of ice and the splendid service rendered at these stations has greatly increased the growth of this business.

GIFFORD-WOOD CO.

DEPENDABUILT Advertising Ice Picks



Most Ice Dealers have identified their business with some color. They paint their buildings or their delivery trucks and their advertising signs in that color. They use it on their letter heads and their bill heads. By that color they are known in the community which they serve.

Use this color identity in your advertising. Put the color by which you are known on the handle of an advertising pick. It will carry your message to the housewife every day in the year. No implement in the kitchen is used for so great a variety of purposes, or so often as the ice pick.

No. 628 Code Word
Prog

These Picks are furnished in quantities of one hundred or more.

Prices are remarkably low and the quality is of the best.

We will gladly send a sample pick of any color shown above for your inspection—we want our customers to see how well made these picks are, how they are finished and how they will help build up your business by distributing them to every user of ice in your locality.

Prices quoted upon application.

Description on opposite page.

ICE —DEPENDABUILT— TOOLS

DEPENDABUILT Advertising Ice Picks

The Gifford-Wood DEPENDABUILT ice pick is a quality product worthy of representing you in the homes of your community. It is well made of first-class materials and beautifully finished. The handles are machine turned from high grade selected maple and are sand-papered by hand to a uniform smoothness. A double Duco finish is then applied, either in red, orange, blue, green, grey, white or natural. Your slogan, name, address and telephone number will be imprinted around the handles in bold black, gothic type. This double Duco finish will not scratch; scalding water or continuous contact with the ice will not harm it.

The blades are $4\frac{3}{4}$ inches long, of heavy tempered steel, highly polished. The ferrules are of pressed, nicked steel and fit snugly up to the blade, holding it rigidly in place. The blades cannot work loose. The wood of the handle around the blade is not exposed to the moisture and will not soften.

These picks are built for long service and will keep your message before the ice buyer in the home for many seasons. The slender handle picks are furnished in either of five colors, or in white or natural finish, as illustrated on the opposite page.

The jumbo handle picks shown on this page are furnished in orange and natural finish only, as illustrated.

Prices quoted upon
application.

No. 628 $\frac{1}{2}$ *Prognostic*

Code Word

Size over all
8 inches.
Blade, $4\frac{3}{4}$ in.

Size over all
8 inches.
Blade, $4\frac{3}{4}$ in.

GIFFORD-WOOD CO.

DEPENDABUILT Advertising Ice Picks



ADVERTISING ICE PICKS Square Handle. Four Flat Sides.

Actual Size $8\frac{1}{2}$ in. over all
Blade, $4\frac{1}{4}$ in.

	Code Word	Per Doz.
No. 628 $\frac{3}{4}$	<i>Program</i>	Prices on app.

The features of this Advertising Ice Pick is that the handle has four flat sides and which offers an unusual opportunity for advertising space.

This pick is desirable for household use, since it may be laid on the ice chest or table and will not roll off. The handles are furnished in natural wood only.

REGULAR LINE OF ICE PICKS



No. 629.—Pear Handle.



No. 632.—Chisel Handle.



No. 630.—Round Handle.



No. 633.—Pear Handle.

	Code Word	Per Doz.
No. 629.— Ice Picks, $1\frac{1}{4}$ -in. x $4\frac{3}{4}$ -in. blade, pear handle.....	<i>Progress</i>	\$1.20
No. 630.— Ice Picks, $\frac{3}{16}$ -in. x 6-in. blade, round handle.....	<i>Promise</i>	1.50
No. 632.— Ice Picks, $\frac{3}{16}$ -in. x 6-in. blade, chisel handle.....	<i>Propel</i>	1.25
No. 633.— Ice Picks, $\frac{3}{16}$ -in. x 6-in. blade, pear handle.....	<i>Prophecy</i>	1.30

Our regular line of Ice Picks are manufactured of the best materials to give long service.

The blades are made of the best steel, finely tempered and are nickel plated. Points are drawn fine for easy splitting.

The handles are made of selected hard wood, nicely finished and shaped to fit the hand to assure a perfect grip.

"Experience is the best teacher"—thus our many years as Ice Tool manufacturers enables us to furnish Ice-Tools that have well earned the enviable reputation they hold among the ice trade.

RED GRIP ICE PICKS.

	Code Word	Per Doz.
No. R-629.— Ice Picks, $1\frac{1}{4}$ -in. x $4\frac{3}{4}$ -in. blade, red pear handle.....	<i>Prophet</i>	\$1.30
No. R-630.— Ice Picks, $\frac{3}{16}$ -in. x 6-in. blade, red round handle....	<i>Propine</i>	1.60
No. R-632.— Ice Picks, $\frac{3}{16}$ -in. x 6-in. blade, red chisel handle....	<i>Propone</i>	1.40
No. R-633.— Ice Picks, $\frac{3}{16}$ -in. x 6-in. blade, red pear handle.....	<i>Proportion</i>	1.40

The G-W "RED GRIP" Ice Pick is in every sense a superior pick. The nickel plated blades are made of a special selected steel and are tempered by our own process, making them the toughest, strongest blade yet produced.

The handles are turned from seasoned hard wood, and are then given a coat of Duco and lacquered over a smooth surface making a fine hard wearing finish.

ICE -DEPENDABUILT- TOOLS

Ice Pick Sheaths



No. 634

ICE PICK SHEATH.

No. 634. — Ice Pick Sheaths.....
 No. 634½.— Ice Pick Sheaths.....



No. 634½

ICE PICK SHEATH.

Code Word	Per Doz.
<i>Propose</i> \$5.50
<i>Proposal</i> 5.50



POCKET ICE PICK SHEATH.

No. 635 — Pocket Ice Pick Sheath.....

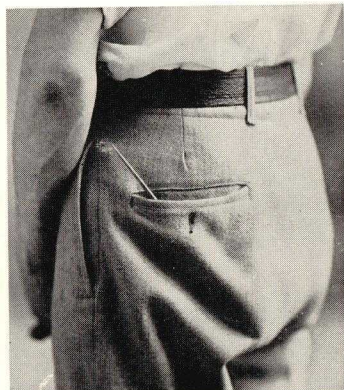
Code Word	Per Doz.
<i>Proposition</i> \$3.25

These Pocket Sheaths are made of the best grade of heavy leather and protect user from possible injury by Ice Pick when carried in pocket.

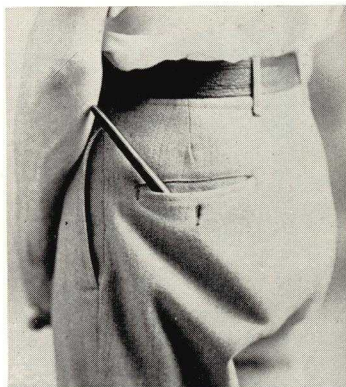
Many slight accidents that are considered trifling in the beginning, often result seriously if not given immediate attention.

Prevention, however, is the best remedy against accidents.

Provide your men with G-W Ice Pick Sheaths — the safest and most convenient way to carry Ice Picks.

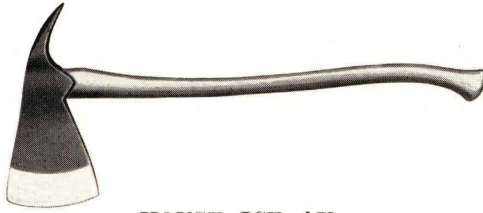


The old dangerous way of carrying Ice Pick in pocket with point exposed.



The new and safe way. Point of Ice Pick covered by leather guard

GIFFORD-WOOD CO.



HOUSE ICE AX.

Weight complete, 7 lbs.; handle, 40 in.; blade, $6\frac{1}{2}$ in. wide.

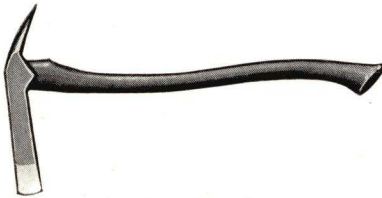
Axes are heavily steeled, finely tempered, and are true to their respective patterns.

Our styles are in sufficient variety to cover the demands of most users, but where still different ones are wanted, we are pleased to make them to pattern.

Length of blade is measured from inside of handle to edge of blade.

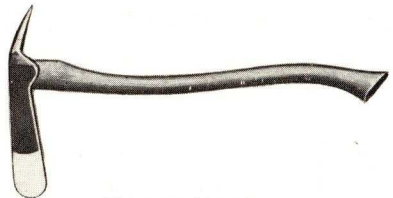
No. 602.—House Ice Axes.....	Code Word	Per Doz.
	<i>Police</i>	\$94.00

The House Ice Ax is used for cutting around cakes in the house instead of No. 458, Bar Chisel or No. 460 Summer Bar, and is particularly adapted to this work where the ice is packed on edge.



Boston Ice Ax.

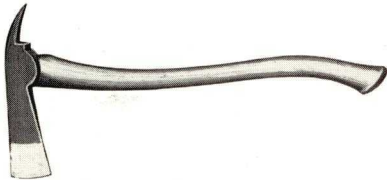
Weight complete, 4 lbs.; handles, 28 in.; blade, $8\frac{1}{2}$ x $1\frac{3}{8}$ in., square edge.



Chicago Ice Ax.

Weight complete, 4 lbs.; handles, 28 in.; blade, 8 x $2\frac{1}{2}$ in., round edge.

No. 604. — Boston Ice Axes, $8\frac{1}{2}$ x $1\frac{3}{8}$ -inch blade.....	Code Word	Per Doz.
No. 605. — Chicago Ice Axes, 8 x $2\frac{1}{2}$ -inch blade.....	<i>Polite</i>	\$48.00
No. 605½.— Chicago Ice Axes, 8 x $2\frac{7}{8}$ -in. blade, "wide-blade Chicago."	<i>Poplin</i>	48.00
	<i>Porter</i>	48.00



New York Medium Ice Ax, 3-in.

Weight complete, $4\frac{1}{2}$ lbs.; handle, 28 in.; blade, $7\frac{1}{2}$ x 3 in., square edge.



New York Heavy Ice Ax, $3\frac{1}{2}$ -in.

Weight complete, 5 lbs.; handle, 32 in.; blade, $7\frac{1}{2}$ x $3\frac{1}{2}$ in., square edge.

No. 607.—New York Medium Ice Axes, $7\frac{1}{2}$ x 3-in. blade.....	Code Word	Per Doz.
No. 608.—New York Heavy Ice Axes, $7\frac{1}{2}$ x $3\frac{1}{2}$ -in. blade.....	<i>Pottage</i>	\$48.00
	<i>Powder</i>	53.00

The New York Ax has a very wide bit, which, together with the extreme weight, causes, in the opinion of many, a straight cut.

All Special Axes made on order only and at an advance over prices on our regular line.

Weights of all ice axes include handles.

Measurements of all axes and hatchets are from inside of handle to edge of blade.

ICE —DEPENDABUILT— TOOLS



Philadelphia Square Head Ice Ax.

Weight, complete, 4 $\frac{3}{4}$ lbs.; handle, 28 in.;
blade, 7 $\frac{1}{2}$ x 2 $\frac{3}{8}$ in.; round edge.



Philadelphia Hook Ice Ax.

Weight, complete, 4 lbs.; handle, 28 in.;
blade, 7 $\frac{1}{2}$ x 2 $\frac{3}{8}$ in.; round edge.

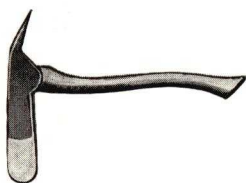
Heavier Axes made to order.

	Code Word	Per Doz.
No. 610.—Philadelphia Square Head Ice Axes, 2 $\frac{7}{8}$ -in. blade.....	<i>Prank</i>	\$49.00
No. 611.—Philadelphia Hook Ice Axes, 2 $\frac{7}{8}$ -in. blade.....	<i>Precipice</i>	48.00
No. 612.—Philadelphia Hook Ice Axes, 2 $\frac{3}{8}$ -in. blade, 22-in. handle..	<i>Preclude</i>	48.00



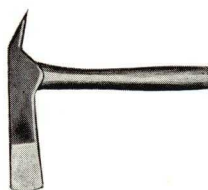
Southern Ax, Heavy.

Round Edge.
Weight, 3 $\frac{1}{2}$ lbs.
Handle, 22 in.
Blade, 2 $\frac{1}{2}$ in. wide.



Southern Ax, Light.

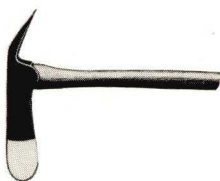
Round Edge.
Weight, 2 $\frac{1}{2}$ lbs.
Handle, 18 in.
Blade, 2 $\frac{1}{4}$ in. wide.



Southern Ax, Medium.

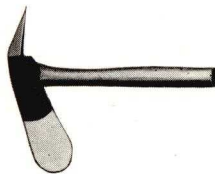
Square Edge.
Weight, 2 $\frac{1}{2}$ lbs.
Handle, 15 in.
Blade, 2 $\frac{1}{4}$ in. wide.

	Code Word	Per Doz.
No. 615.—Southern Axes, Heavy, round edge, 22-in. handle.....	<i>Present</i>	\$48.00
No. 616.—Southern Axes, Light, round edge, 18-in. handle.....	<i>Press</i>	38.00
No. 620.—Southern Hatchets, Medium, square edge, 15-in. handle	<i>Pride</i>	38.00



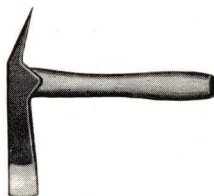
Southern Hatchet, Medium.

Round Edge.
Weight, 2 $\frac{1}{2}$ lbs.
Handle, 15 in.
Blade, 2 $\frac{1}{4}$ in. wide.



Washington Hatchet.

Weight, 2 $\frac{1}{4}$ lbs.
Handle, 15 in.
Blade, 2 $\frac{1}{2}$ in. to 3 in. wide.



Southern Hatchet, Light.

Square Edge.
Weight, 2 lbs.
Handle, 15 in.
Blade, 2 in. wide.

	Code Word	Per Doz.
No. 621.—Southern Hatchets, Medium, round edge, 15-in. handle...	<i>Private</i>	\$38.00
No. 622.—Washington Hatchets, Light, round edge, 6 x 2 $\frac{3}{8}$ -in. blade, 15-in. handle.....	<i>Probate</i>	46.00
No. 623.—Washington Hatchets, Medium, round edge 6 $\frac{1}{2}$ x 2 $\frac{3}{8}$ -in. blade, 15-in. handle.....	<i>Proceed</i>	46.00
No. 625.—Southern Hatchets, Light, square edge, 15-in. handle....	<i>Profit</i>	38.00

We use the utmost care in making all axes and hatchets to have them meet the highest ideal of the expert driver.

GIFFORD-WOOD CO.



No. 649C.
No. 649D.
No. 649½C.



No. 649E.



No. 649H.
No. 649J.



No. 650.



No. 652.



No. 653½.

4-POINT SHAVER, PIPE HANDLE, HOLLOW RING.

Weight, 4 lbs.; length, 3 ft. 1 in.; blade, 7½ x 4¾ in.

No. 649C. — 4-Point Shavers, Ring Pipe Hdle., beveled both sides.

No. 649D. — 4-Point Shavers, Ring Pipe Hdle., beveled one side only

No. 649½C. — Same as No. 649C., except length, 26 in. over all...

Weight 2¾ lbs.; length, 2 ft. 2 in.; blade, 7½ x 4¾ in.

Code Word

Each

Raccoon \$2.85

Rack 2.85

Race 2.85

5-POINT SHAVER, KNOB PIPE HANDLE.

Weight, 5½ lbs.; length, 4 ft.; blade, 8½ x 6 in. wide.

No. 649E. — 5-Point Shavers, Knob Pipe Hdle., beveled both sides.

Code Word

Each

Radicate \$3.50

5-POINT SHAVER, PIPE HANDLE, HOLLOW RING.

Weight, 5½ lbs.; length, 3 ft. 2 in.; blade, 8½ x 6 in. wide.

No. 649H. — 5-Point Shavers, Ring Pipe Hdle., beveled both sides....

No. 649J. — 5-Point Shavers, Ring Pipe Hdle., beveled one side only.

Code Word

Each

Ramble \$3.25

Rampart 3.25

4-POINT SHAVER, LONG HANDLE.

Weight, 4 lbs.; length, 3 ft. 11 in.; blade, 7½ x 4¾ in. wide; handle, 1½ in. diam.

No. 650. — 4-Point Shavers, Long Hdle., regular blade and teeth...

Code Word

Each

Ransom \$2.80

4-POINT SHAVER, D HANDLE.

Weight, 4 lbs.; length, 3 ft. 6 in.; blade, 7½ x 4¾ in. wide; handle, 1½ in. diam.

No. 652. — 4-Point Shavers, D Hdle., regular blade and teeth....

Code Word

Each

Ration \$3.25

CHICAGO 4-POINT SHAVER, SHORT D HANDLE

Weight, 3½ lbs.; length, 2 ft. 3 in.; blade, 7½ x 4¾ in.; handle, 1½ in. diam.

No. 653½. — Chicago 4-Point Shavers, Short D Hdle., regular teeth.

Code Word

Each

Rattle \$3.25

Shaver teeth are beveled on one side only, unless described otherwise.

The 4-Point Shavers are in most common use for delivery wagons.

The 5-Point Shavers are adapted for larger operations in fish markets and ice cream factories.

ICE —DEPENDABUILT— TOOLS



No. 654.



No. 655.



No. 658.



No. 659.



No. 665.



No. 667.

5-POINT SHAVER, LONG HANDLE.

Weight, 4 $\frac{3}{4}$ lbs.; length, 4 ft.; blade, 8 $\frac{1}{2}$ x 6 in. wide; handle, 1 $\frac{1}{2}$ in. diam.

No. 654.— 5-Point Shavers. Long Hdle.....	Code Word	Each
	<i>Rebellion</i>	\$3.00

5-POINT SHAVER, D HANDLE.

Weight, 4 $\frac{3}{4}$ lbs.; length, 3 ft. 6 in.; blade, 8 $\frac{1}{2}$ x 6 in. wide; handle, 1 $\frac{1}{2}$ in. diam.

No. 655.— 5-Point Shavers, D Hdle.....	Code Word	Each
	<i>Recital</i>	\$3.50

7-POINT SHAVER, LONG HANDLE.

Weight, 5 $\frac{1}{2}$ lbs.; length, 4 ft.; blade, 9 x 7 $\frac{1}{2}$ in. wide; handle, 1 $\frac{1}{2}$ in. diam.

No. 658.— 7-Point Shavers, Long Hdle.....	Code Word	Each
	<i>Recoil</i>	\$4.00

7-POINT SHAVERS, D HANDLE.

Weight, 4 $\frac{3}{4}$ lbs.; length, 3 ft. 6 in.; blade, 8 $\frac{1}{2}$ x 6 in. wide; handle, 1 $\frac{1}{2}$ in. diam.

No. 659.— 7-Point Shavers, D Hdle.....	Code Word	Each
	<i>Redolent</i>	\$4.00

BREAKERS, LONG HANDLE, WOOD.

Weight, 7 lbs.; length, 4 ft. 1 in.; length of tines, 7 $\frac{3}{4}$ in.; width at points, 3 in.

No. 665.— Breakers, long handle.....	Code Word	Each
	<i>Regal</i>	\$8.75

BREAKERS, D HANDLE, WOOD.

Weight, 6 $\frac{1}{2}$ lbs.; length, 3 ft. 7 in.; length of tines, 7 $\frac{3}{4}$ in.; width at points, 3 in.

No. 667.— Breakers, D handle.....	Code Word	Each
	<i>Regiment</i>	\$9.00

The breakers should not be used as a chisel for splitting cakes of ice. The tines are shaped and set for breaking off coarse lumps from the sides of the cake, or for scaling off finer pieces if desired. They are very popular in fish markets.

The steel used in all our Shavers is especially made for the purpose, and is of extra quality. The points will hold a fine edge.

GIFFORD-WOOD CO.



Wooden Sole Shoes, Plain.



Wooden Sole Shoes, Shod.

	Code Word	Per Pair
No. 676A.—Shoes, Plain, Sizes, 6, 7, 8, 9, 10, 11, 12.....	<i>Resident</i>	\$4.80
No. 676B.—Shoes, Shod, Sizes, 6, 7, 8, 9, 10, 11, 12.....	<i>Resort</i>	5.75

Both styles are much used in ice-making plants and in natural ice houses.

Order the same size that you regularly wear.

Our Wooden Sole Shoes are light and extremely durable and are made for service and comfort. They are impervious to water and all wet and soggy substances, also the usual acids and chemicals used in industries.

Owners and superintendents of many large ice plants, mills and industries find it a wise and economical plan to furnish their men with these shoes.

They have found that lay-offs due to preventable sickness are too expensive to go unheeded.



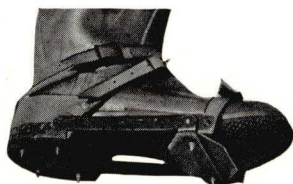
Klondyke Ice Creepers.



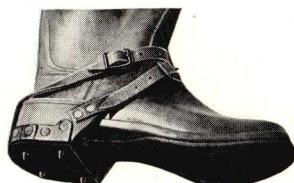
Instep Ice Creepers.

	Code Word	Per Pair
No. 677.—Klondyke or "Hudson River" Ice Creepers.....	<i>Riddle</i>	\$1.25
No. 678.—Instep Ice Creepers.....	<i>Rookery</i>	.45

Either style can be worn on overshoes.



G.W. Ice Creeper. Style A.



G.W. Ice Creeper. Style B.

	Code Word	Per Pair
No. 679A4.—Creepers, heel, $3\frac{1}{2}$ in. wide; foot, $4\frac{1}{2}$ in. wide.....	<i>Rowel</i>	\$3.25
No. 679A5.—Creepers, heel, $3\frac{3}{4}$ in. wide; foot, $4\frac{3}{4}$ in. wide.....	<i>Rubble</i>	3.25
No. 679B4.—Creepers, heel, $3\frac{1}{2}$ in. wide.....	<i>Runlet</i>	2.00
No. 679B5.—Creepers, heel, $3\frac{3}{4}$ in. wide.....	<i>Rupee</i>	2.00

	Code Word	Per Doz.
No. 680.—Extra Points for Creepers.....	<i>Rustic</i>	\$0.20

No other creepers on the market can compare with these for comfort. They can be worn on overshoes or rubber boots.

The backs are of leather and will not chafe the shoe, and are light and durable.

The style A creeper has two hinged points that makes walking natural and prevents tired feet at the end of the day.

The points are made of case hardened steel for long wear.

Points are easily replaced with new ones.

G-W Creepers should always be worn when walking on ice.

Furnish your men with these ideal creepers to prevent injury by slipping.

ICE —DEPENDABUILT— TOOLS



ICE HOUSE SAW.

Weight, 6 lbs.; length of blade, 42 in.

Code Word

Each

No. 638.—Ice House Saws..... *Protocol* \$4.00

This is a useful article where ice blocks are packed closely and cannot be separated by chisel without breakage.



HAND SAW, OVAL IRON HANDLE, 30 IN.

Weight, 4½ lbs.; blade, 30 in. long.

Code Word

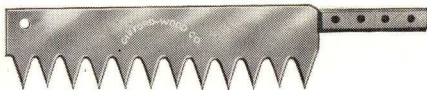
Each

No. 641¾.—Hand Ice Saws, Oval Iron Handle, 26 in..... *Pumice* \$2.25

No. 642.—Hand Ice Saws, Oval Iron Handle, 30 in..... *Punch* 2.50

No. 642½.—Hand Ice Saws, Oval Iron Handle, 36 in..... *Punish* 2.75

The 30-inch Hand Saw is the usual ice wagon length, and when no length is given in order, we will send that size. Best malleable iron handles used on our Hand Saws.



ICE CLEAVER OR HACK.

Weight, 3 lbs.; length of blade, 20 in.



UPRIGHT FIBER BROOM.

Code Word

Each

No. 648.—Ice Cleavers, 12 teeth..... *Purser* \$7.50

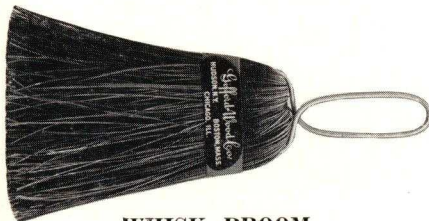
Per Doz.

No. 669.—Upright Fiber Brooms..... *Push* \$10.90

Cleavers are used by some on wagons in place of the ax.

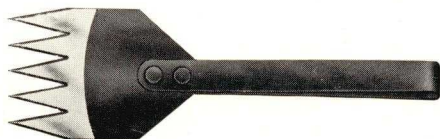
The end of the blade is sharpened for use in shaving or scraping the ice.

Fiber Brooms are used for sweeping out the bottoms of ice trucks, cleaning floors, etc. Long wear is assured by the use of full weight specially prepared Bass fiber which combines the right flexibility with toughness and durability.



WHISK BROOM.

Length of Fiber 6¾ in.



ICE CHIPPER, IRON HANDLE.

Blade 2½ in. wide

Code Word

Per Doz.

No. 636.—Whisk Brooms..... *Pushcart* \$4.00

No. 637.—Ice Chippers, Iron Handle..... *Putter* 9.00

Whisk Brooms are made of Selected Bassine Fiber which provides for long wearing qualities. Used on delivery wagons for brushing ice.

A very durable hand chipper and useful for breaking up ice into small pieces.

The handle is formed by bending a piece of 5/8" x 1/8" flat steel. The shape of the handle provides a comfortable grip for the hand.

GIFFORD-WOOD CO.



POCKET ICE APRON.
Straight Top.



POCKET ICE APRON.
Cut-out Top.

	Code Word	Each
No. 670.—Pocket Ice Aprons, Straight Top, with harness complete	<i>Remote</i>	\$4.75
No. 671.—Pocket Ice Aprons, Cut-Out Top, with harness complete	<i>Remove</i>	5.00
No. 672.—Pocket Ice Aprons, Cut-Out Top, with harness complete	<i>Render</i>	5.00

Pocket Ice Apron No. 672 is the same style as No. 671, but slightly heavier (4 oz.) and is made of a high quality pure gum rubber.

These aprons are made of a light but very durable material, having a double coating of the highest quality pure gum rubber.

The straight top style of pocket ice apron has been in use for many years. This apron is cut straight across the top, and is held in proper position by a light harness.

The cut-out top style of pocket apron is cut high in the neck and is made with wings to protect the shoulders and arms.

This style is much preferred by some, especially by those who carry ice higher up on the shoulders, as it affords more protection than the old style. Both designs are very popular.

Pocket Ice Aprons are made for those who carry ice on the back. When delivery men get accustomed to this method they never return to the "lugging" plan.

By its use the good graces of the housewife are secured, for no drippings reach the floor.

Plain Rubber Aprons

	Code Word	Each
No. 673.—Plain Rubber Aprons, 47½ in. long.....	<i>Repel</i>	\$2.25

Plain Aprons are worn in front in the same manner as ordinary aprons.

Made in one length only.

Write for Ice Machinery Catalog No. 1226.

ICE -DEPENDABUILT- TOOLS



COMBINATION SHOULDER PAD AND ICE MAT.

Worn over shoulder when delivering ice to customers.



COMBINATION SHOULDER PAD AND ICE MAT.

Used as a mat on the floor in front of ice chest to catch water.

No. 674.—Combination Shoulder Pad and Ice Mat.....	Code Word <i>Repent</i>	Each \$4.25
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The pocket in the Shoulder Pad catches all water so no drippings reach the floor.



Patent applied for.

COMBINATION SHOULDER PAD AND ICE MAT.

When used as a mat in front of the ice chest, the possibility of tracking dirt into the house is entirely removed. Small pieces of ice left in the ice chamber are taken out, placed on the mat while chamber is being refilled. No wet floors to be cleaned up after your driver departs.

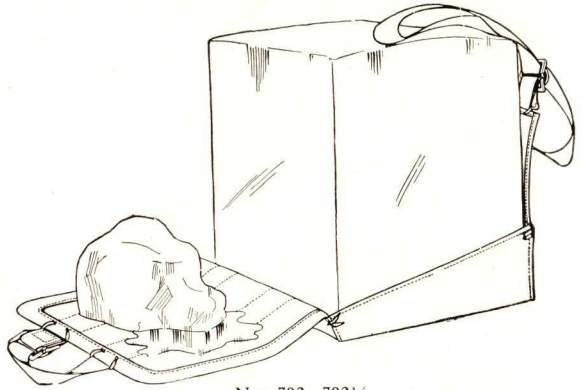
A service appreciated by your customers.

GIFFORD-WOOD CO.

Ice Delivery Bags



No. 781



Nos. 782-782 1/2

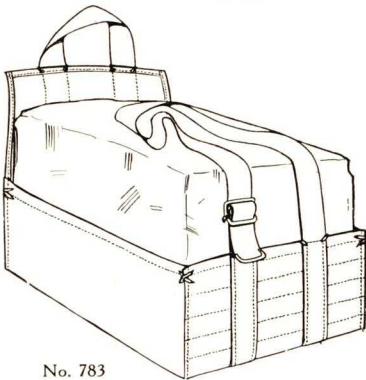
No. 781. — Ice Delivery Bags.....	Code Word	Dozen Lots
	<i>Runner</i>	\$3.25 each

This Bag constructed of heavy waterproofed and filled material, double stitched and reinforced throughout. Handles of triple ply webbing doubled across bottom of bag. So designed that strain falls on webbing, thus insuring long life. Carried on the arm like a market basket, leaving hands free. Capacity two 25-lb. chunks or one 50-lb. piece.

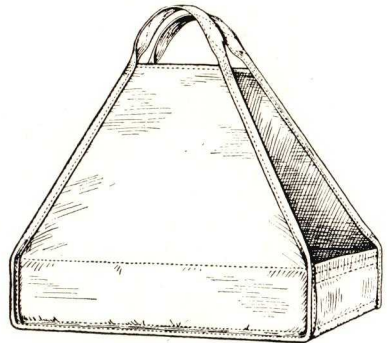
No. 782. — Ice Delivery Bags.....	Code Word	Dozen Lots
	<i>Runway</i>	\$4.15 each
		Less Dozen Lots

No. 782 1/2. — Ice Delivery Bags.....	<i>Rush</i>	\$4.50 each
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For Apartment Deliveries, or when more than one service at a single trip is desired. To be carried on back, with adjustable handles for any size man or chunk ice. Back pad, when let down, serves as place to put old ice from refrigerator, also catches chips while cutting to size chunk desired.



No. 783



Nos. 784-784 1/2

No. 783. — Ice Delivery Bags.....	Code Word	Dozen Lots
	<i>Rushline</i>	\$3.60 each

This combination bag for all purposes. Made as the Nos. 781 and 782 1/2 with all strain falling on the triple ply web handles. May be carried on back, hip, shoulder or arm, at carrier's convenience. Can be used for serving 25, 50 or 75 pound portions. Double stitched and reinforced with hand stitching.

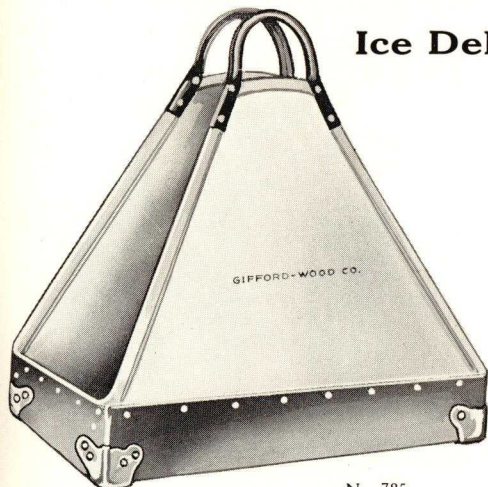
No. 784. — Ice Delivery Bags.....	Code Word	Dozen Lots
	<i>Russet</i>	\$2.40 each
		Less Dozen Lots

No. 784 1/2. — Ice Delivery Bags.....	<i>Rust</i>	\$2.50 each
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Made of extra heavy duck, waterproofed and mildewproofed. Inside dimensions eleven by twenty-one inches. Edges of flaps bound with heavy brown webbing. Handles made of same material, attached as shown in cut, equalizing the load.

ICE —DEPENDABUILT— TOOLS

Ice Delivery Bags



No. 785



Nos. 785 1/2—785 3/4

No. 785. — Ice Delivery Bags.....
 Absolutely water-tight bag to prevent soiling the customer's floors. A strong, durable delivery bag made water-tight with non-leaking fiber bottom—reinforced with metal trunk corners. Equipped with leather handles bradded securely to the heavy 22-oz. water-proofed duck.

Code Word *Rustic* Per Doz. \$40.00

No. 785 1/2. — Ice Delivery Bags.....

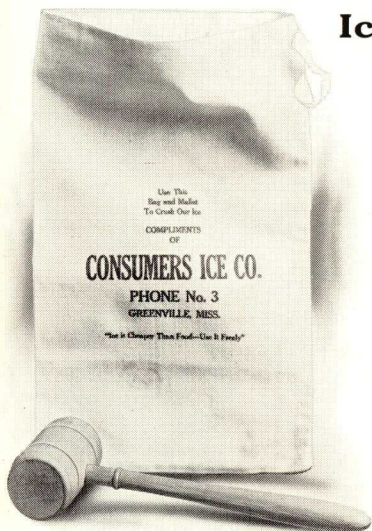
Code Word *Rut* Per Doz. \$27.00

No. 785 3/4. — Ice Delivery Bags.....

Ruth 50 lb. Capacity \$40.00
 100 lb. Capacity

This bag is similar to the new improved bag, No. 785, and has leather handles but without fiber bottom and metal corners.

Ice Bags and Mallets



Code Word

No. 787. — Ice Bags and Mallets..... *Rutly* ..Prices on app.

Supplying your domestic trade with our useful combination Ice Mallet and Bag makes the use of crushed ice for cold drinks, salads, cold fruits and homemade ice cream the work of a moment. Keeps customers satisfied and increases consumption.

Can be sold or distributed Free as an Advertising Medium, creating Good Will. Any Advertisement printed one side of Bag in Waterproof Ink. Hardwood Mallets.

GIFFORD-WOOD CO.



No. 700
Ironclad.
Weight, $4\frac{1}{4}$ lbs.



No. 704
Straight.
Weight, $4\frac{3}{4}$ lbs.



No. 707
Mogul.
Weight, $6\frac{1}{4}$ lbs.



No. 708
Steel King.
Weight, $4\frac{1}{4}$ lbs.

The "Ironclad" has a malleable iron jacket, and is a reliable scale for a moderate cost.

The "Straight" Scale is popular where ice is weighed by 1 and 2 pound marks.

The "Mogul" needs no introduction. It is a high grade scale having double springs, wound in opposite directions. The patent interior sliding link prevents over-straining of the springs.

The "Steel King" is a well-known and popular scale.

			Code Word	Each
No. 700.—"Ironclad,"	200 lbs. by 2 lbs.....		<i>Saber</i>	\$5.25
	200 lbs. by 5 lbs.....		<i>Sabot</i>	4.75
	300 lbs. by 5 lbs.....		<i>Sack</i>	6.00
	400 lbs. by 5 lbs.....		<i>Saddlebag</i>	6.50
No. 704.—"Straight,"	80 lbs. by 1 lb.....		<i>Salnet</i>	\$3.00
	100 lbs. by 1 lb.....		<i>Savage</i>	5.00
	150 lbs. by 1 lb.....		<i>Seaport</i>	8.00
	300 lbs. by 2 lbs.....		<i>Sedate</i>	9.25
No. 707.—"Mogul,"	200 lbs. by 5 lbs.....		<i>Shiner</i>	\$7.25
	300 lbs. by 5 lbs.....		<i>Shingle</i>	7.25
	350 lbs. by 5 lbs.....		<i>Ship</i>	7.25
No. 708.—"Steel King,"	150 lbs. by 1 lb.....		<i>Senora</i>	\$5.75
	200 lbs. by 2 lbs.....		<i>Sermon</i>	6.25
	300 lbs. by 5 lbs.....		<i>Serpent</i>	6.75
	400 lbs. by 5 lbs.....		<i>Shale</i>	7.00

Repairing scales at reasonable prices.

Write for Ice Machinery Catalog No. 1226.

ICE —DEPENDABUILT— TOOLS

G-W. REFRIGERATOR BLOCKS.

No. 709C. — G.-W. Blocks,	Code Word	Per Pair
one single and		
one double.....	<i>Regret</i>	\$ 6.25
No. 709D. —G.-W. Blocks,		
two double.....	<i>Relate</i>	7.25

Our new style refrigerator blocks are provided with strap becket insuring safety in support. This may be removed by wing nut without use of wrench. Roller bearings reduce friction to a minimum and the shortness of the blocks makes it possible to hoist the load close up under the ceiling. Use $\frac{5}{8}$ -in. diameter rope.

One Single and One Double.

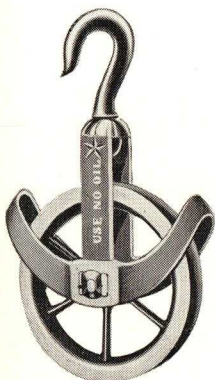
Distance between hooks, 13 in.
Weight per pair, $3\frac{1}{2}$ lbs.

Two Double.

Distance between hooks, 13 in.
Weight per pair, $4\frac{1}{2}$ lbs.

No.
709C

No.
709D



No. 710

Self-Lubricating Upper Gin

Weight of 12-in. size, 33 lbs.

		Code Word	Each
No. 710.— Upper	8 in., weight 17 lbs.	<i>Shock</i>	\$ 7.50
Gins,	10 in., weight 25 lbs.	<i>Signal</i>	10.00
	12 in., weight 33 lbs.	<i>Silent</i>	13.00
No. 711.— Lower	8 in., weight 23 lbs.	<i>Smoke</i>	8.50
Gins,	10 in., weight 31 lbs.	<i>Sole</i>	11.00
	12 in., weight 39 lbs.	<i>Solitude</i>	14.00

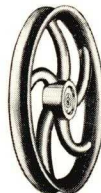
These Gins are metaline bushed and can be run at quick speed without the use of oil. They are substantial, always ready for use, and will wear many times longer than wheels with roller bearings.



No. 712

Self-Lubricating Sheave Wheel.

Weight of 12-in., 17 lbs.
Hole for $\frac{7}{8}$ in. pin.



No. 716

Anti-Friction Sheave Wheel.

Weight, $9\frac{1}{2}$ lbs.; 12 in. diameter;
 $1\frac{3}{8}$ in. thick
Hole for $\frac{7}{8}$ in. pin.



No. 711

Self-Lubricating Lower Gin

Weight of 12-in. size, 39 lbs.

No. 712.—Sheaves,	8 in., $\frac{3}{4}$ in. hole,		
	for $\frac{3}{4}$ to $1\frac{1}{4}$ in.	Code Word	Each
rope.....		<i>Sonata</i>	\$2.75
10 in., $\frac{3}{4}$ in. hole,			
for 1 to $1\frac{3}{8}$ in.		<i>Song</i>	3.50
rope.....			
12 in., $\frac{7}{8}$ in. hole,		<i>Spar</i>	4.75
for 1 to $1\frac{1}{2}$ in.			
rope.....			

These sheaves are used in upper 710 and 711 shown at left.

No. 716.— Anti-Friction Sheave Wheel,			
12 in., for 1 in. rope...	<i>Spotless</i>		\$2.50

GIFFORD-WOOD CO.

G-W Standard Ice Runs

**For Handling
Manufactured Ice
on Edge.**

Head Section.

Length of head section, $8\frac{1}{2}$ ft.;
width inside, $12\frac{1}{2}$ in.;
weight, 110 lbs.

**Simple—Efficient
Inexpensive**

Built entirely of steel, light in weight and practically indestructible.

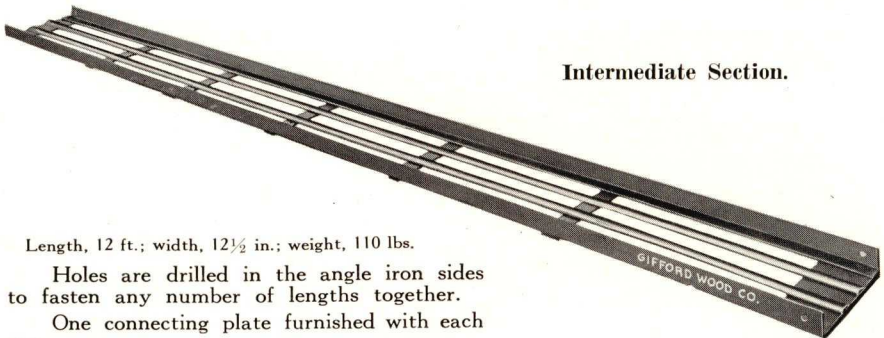
These all Steel Welded Runs are used extensively in Manufactured Ice Plants for transferring ice quickly and economically. The sides are of steel angles and the proper height to guide the ice while in motion. These runs are substantially built and will last indefinitely.

An all steel welded run, no rivets used in its construction.

No. 729.—Standard Ice Runs, Head Section.....

Code Word
Tortoise

Each
On app.



Intermediate Section.

Length, 12 ft.; width, $12\frac{1}{2}$ in.; weight, 110 lbs.

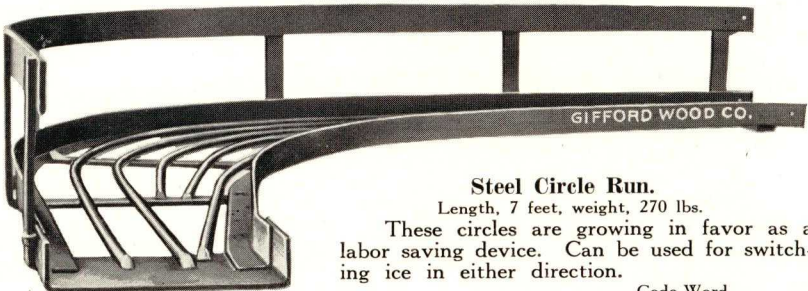
Holes are drilled in the angle iron sides to fasten any number of lengths together.

One connecting plate furnished with each run.

No. 729 $\frac{1}{4}$.—Standard Ice Runs, Intermediate Section.....

Code Word
Toy

Each
On app.



Steel Circle Run.

Length, 7 feet, weight, 270 lbs.

These circles are growing in favor as a labor saving device. Can be used for switching ice in either direction.

No. 729 $\frac{1}{2}$.—Standard Ice Runs, Steel Circle.....

Code Word
Trace

Each
On app.

This plate is used when it is desired to connect two runs together.



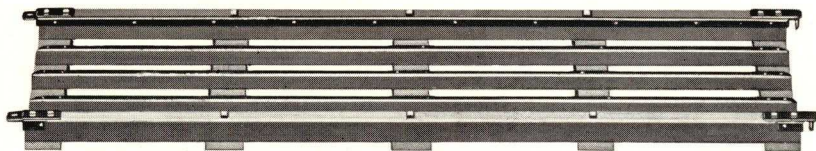
Connecting Plate.

No. 729 $\frac{3}{4}$.—Standard
Ice Runs,
Connecting
Plate.....

Code Word
Trade Each
On app.

G.-W. Standard Ice Runs are also made for handling two or three cakes simultaneously.

ICE —DEPENDABUILT— TOOLS



WOODEN RUN, WITH SIDES, 12 FEET.

Weight, 130 lbs.

	Code Word	Each
No. 730.— Wooden Runs, 12 feet, 5 battens.....	<i>Totem</i>	\$23.00
14 feet, 5 battens.....	<i>Totter</i>	25.00
16 feet, 6 battens.....	<i>Touch</i>	27.00

Wooden Runs are made of spruce, fitted with hooks and eyes, amply ironed and painted. Stock width, 28 inches inside, clear.



HOOK.

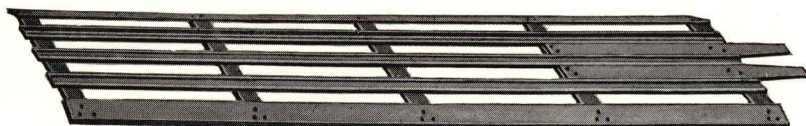


EYE.

	Code Word	Pair
No. 734.— Hook and Eyes for No. 730 Runs (wt. per pair, 4½ lbs.)	<i>Travel</i>	\$.85

These are for coupling Runs together which have sides.

All Special Runs made on order only and at an advance over prices on our regular line



WOODEN FLAT SKID, 14 FEET.

Weight, 145 lbs.

	Code Word	Each
No. 740.— Wooden Flat Skids, 12 feet, 4 battens.....	<i>Traffic</i>	\$14.00
14 feet, 5 battens.....	<i>Trample</i>	16.00
16 feet, 5 battens.....	<i>Trap</i>	17.00

The two outside run-strips are ironed with patent V-iron, with dressed ends, and the center one with 1-inch half oval iron, with dressed end.

The outside flat wings slant outward and aid in pulling off.



ICE RUN IRON.

Weight per ft., 1½ lbs.

	Code Word	Per Ft.
No. 750.— Run Iron, drilled, 12 feet, square ends.....	<i>Trig</i>	\$ 0.10
14 feet, square ends.....	<i>Trigon</i>	.10
16 feet, square ends.....	<i>Trinal</i>	.10

This V-pattern Ice Run Iron is largely used. The sharp surface slightly grooves the ice as it passes over it. This iron is drilled and countersunk for ¼-in. tire bolts.

	Code Word	Per Bar
Extra charge, net, for dressing ends.....	<i>Trine</i>	\$ 0.08



HALF OVAL IRON.

Weight per ft., 1 lb.

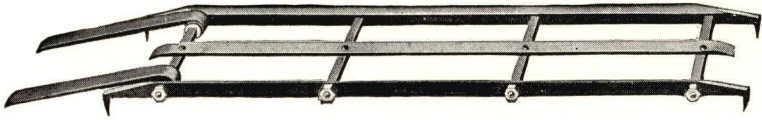
	Code Word	Per Ft.
No. 754.— Half Oval Iron, 1 x ¾ in., 12 feet.....	<i>Trio</i>	\$ 0.09
14 feet.....	<i>Tripod</i>	.09
16 feet.....	<i>Trolley</i>	.09

	Code Word	Per Bar
Extra charge, net, for dressing ends.....	<i>Trooper</i>	\$ 0.08

This iron is used on runs made with sides, and on Flat Wooden Skids for the center bar. This iron is drilled and countersunk for ¼-in. tire bolts.

In the absence of instructions Square-end Run Iron and Half Oval Iron will be sent.

GIFFORD-WOOD CO.



HOUSE OR WAGON RUNS.

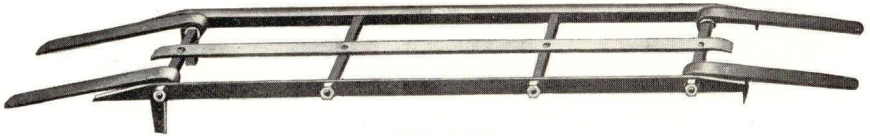
Length of sides, 6 ft.; over all, 7 ft. 6 in.; weight, 75 lbs.

	Code Word	Each
No. 720.—Steel Runs, 6 feet, width 12 in.....	<i>Taboret</i>	\$32.00
No. 721.—Steel Runs, 6 feet, width 16 in.....	<i>Tactic</i>	33.00

Regular width 12 in. Suitable for 22-in. ice or under.

Extra width 16 in. Suitable for 32-in. ice or under.

These Steel Runs are useful in the houses for loading wagons, and are made with flippers on one end to cause the ice to slide on easily.



CAR RUN.

Length of sides, 7 ft.; over all, 9 ft. 6 in.; weight, 105 lbs.

	Code Word	Each
No. 722.—Car Runs, 7 feet, width 12 in.....	<i>Tadpole</i>	\$43.00
No. 723.—Car Runs, 7 feet, width 16 in.....	<i>Taffeta</i>	44.00

Regular width 12 in. Suitable for 22-in. ice or under.

Extra width 16 in. Suitable for 32-in. ice or under.

This style is used for loading cars and has flippers on the delivery as well as on the receiving end.



4-SLAT T-IRON SKID, 12 FEET.

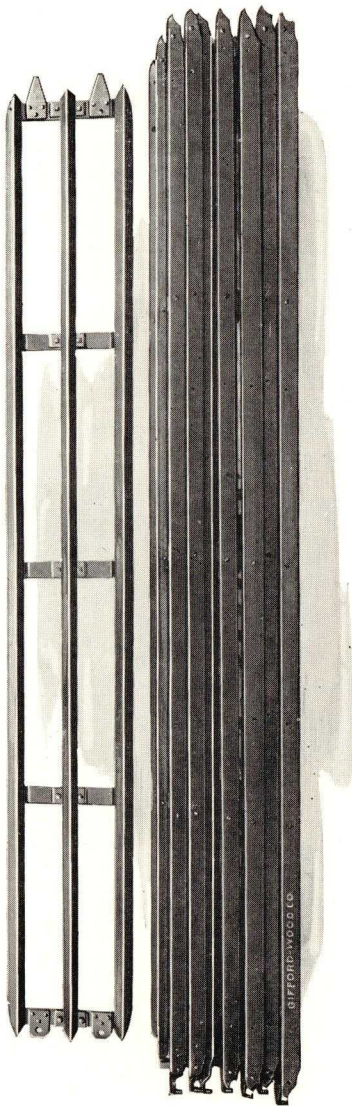
Usual length, 12 ft.; weight, 110 lbs.

	Code Word	Each
No. 726.—4-Slat Skids, 8 feet long, 22 inches wide.....	<i>Telltale</i>	\$ 9.00
10 feet long, 22 inches wide.....	<i>Temple</i>	10.00
12 feet long, 22 inches wide.....	<i>Tender</i>	12.00
14 feet long, 22 inches wide.....	<i>Toad</i>	13.00
16 feet long, 22 inches wide.....	<i>Token</i>	14.00

T-Iron Skids are popular for use in houses.

This pattern is made entirely of T-Iron.

Write for Ice Machinery Catalog No. 1226.



COMBINATION WINTER AND SUMMER RUNS.

Patented

No. 718.—Combination Winter and Summer Runs..... Code Word *Stag* Each \$21.00

A really acceptable Combination Winter and Summer Run. Length, 12 feet; width, 16 inches; weight, 120 lbs.; made of all steel with slats of inverted angles affording an ideal support for blocks in summer. Outside slats are slightly rounded, but centre slat is left sharp, which edge keeps ice on the run in winter when slat is raised. In summer, the centre slat is lowered which permits cakes to be pulled on or off the run. Centre slat bolted fast in each position. This type of run has been successfully used several seasons with repeat orders. Worth introducing into your plant.

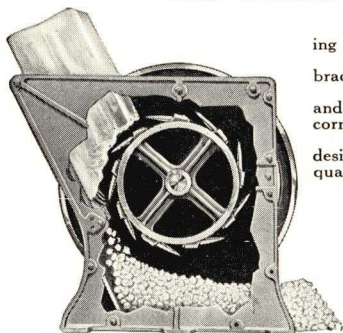
All Special Runs made on order only and at an advance over prices on our regular line.

Write for Ice Machinery Catalog No. 1226.

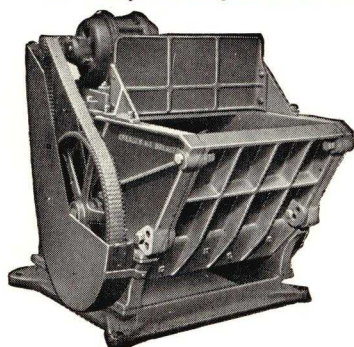
GIFFORD-WOOD CO.

Creasey Ice Breakers

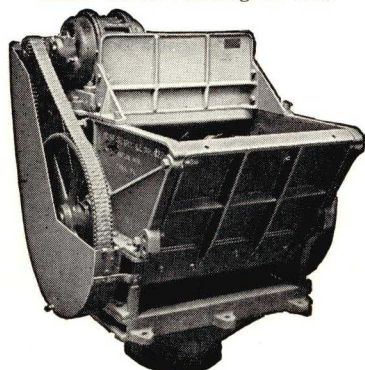
WHY THE CREASEY ICE BREAKER IS THE MOST POPULAR AND WIDELY USED MACHINE ON THE MARKET.



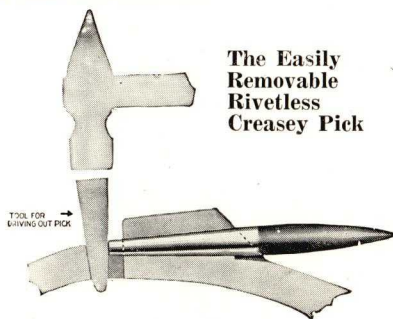
1. Design and construction are based on all the experience gained in building ice breakers for a period of forty years' time.
2. The construction is rugged, thick heavy plates are used and all parts are braced to withstand that most severe service.
3. The socket type Creasey pick is easily removable, highly efficient, round, and non-clogging; no rivets to stretch and work loose, or to rust tight. No flat corners for the ice to pack into.
4. The efficient Creasey pick, proper angle of feed, and other details Creasey design insure maximum capacity with least expenditure of power. The minimum quantity of slush and snow ice is produced.
5. Interchangeable combs for positively regulating the broken ice sizes are supported for their entire length and are not subject to bulging or rusting tight.
6. A special swinging front plate gives still further ice adjustments. This plate, against which the ice is broken, is made of Semi-Steel to insure maximum strength.
7. The ice deflector plate at bottom throws the broken ice to front or rear as desired.
8. Split babitted bearings of generous proportions with oil cups cast integral with them assure long life and even running.
9. The drum is a heavy, one-piece casting, properly balanced, and keyed to the shaft. Set-screwing is not satisfactory for this service. On the larger machines the drum is made of Semi-Steel.
10. The angle of feeding is designed to give immunity from ice clogging in the drum, picks or combs.
11. The special "Y" type gap frame permits of free access to all parts of the machine.
12. An ice rest is embodied in the back of the machine to facilitate handling of ice and feeding. It is ribbed and drained back into the machine.
13. All bolt holes are strongly braced, and lock nuts used on all important bolts. Single nuts are sure to work loose in this severe service.
14. Fly-wheels are provided on the larger machines to steady operation, and save power, and wear and tear.
15. Our experience in installing over 20,000 machines enables us to make suggestions leading to the most desirable and efficient installation and arrangement.
16. Prompt and complete service is given in furnishing repair parts from stock.



48 HT Motor Driven Creasey.
(Heavy Duty Type with silent chain drive running in oil.)



49J Motor Driven Creasey.



The Easily Removable Rivetless Creasey Pick

	2 or 3 Phase A. C. 60 Cycle 220 or 440 V.	D. C. 220 V.	Approx. Shipping Weight
No. 49J Standard, 5 H. P. Motor...	\$1000.00	\$1150.00	3400
No. 49J Hopper type, 5 H. P. Motor...	1070.00	1200.00	3600

Furnished complete with 5 H. P. Motor, Chain Drive, Drive Casing, making a self-contained unit.

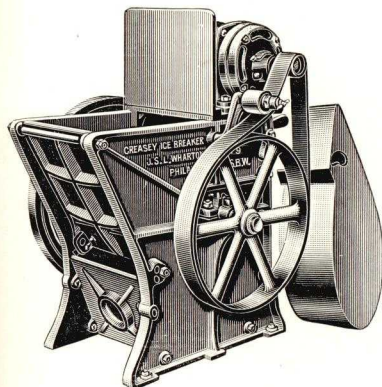
The No. 49J Motor Driven Creasey illustrated is a typical Heavy Duty Unit. Rugged design—high grade construction—intended to stand up under heavy use and service. This machine has an ice opening $27\frac{1}{2}$ " wide by 22"—and has capacity for 30 tons per hour. Two other Heavy Duty sizes ranges up to 50 tons per hour and more. Ask for a detailed specification of the Heavy Duty Creasey Construction.

*Write for Illustrated Catalog on
Creasey Breakers.*

ICE —DEPENDABUILT— TOOLS

Creasey Ice Breakers

MOTOR DRIVEN UNITS FOR MEDIUM REQUIREMENTS.



Creasey Motor-Driven Ice Breaker.
(with drive casing removed)
BELT AND IDLER TYPE

On sizes 50-Y to 55-Y we furnish a direct connected outfit, consisting of a slow speed motor mounted on top of the machine, protected by a strong baffle, driving direct to the ice breaker shaft through a generous size pliable belt with an idler arranged with means for adjusting the belt tension, and for insuring the most efficient belt contact on the pulleys. A belt of ample tractive power and extra durability is used, and a cork insert pulley is supplied on the motor to minimize belt slip. Protective casing over the drive is also included. A large fly-wheel is also supplied to save power and steady operation, and to serve as an emergency hand drive.

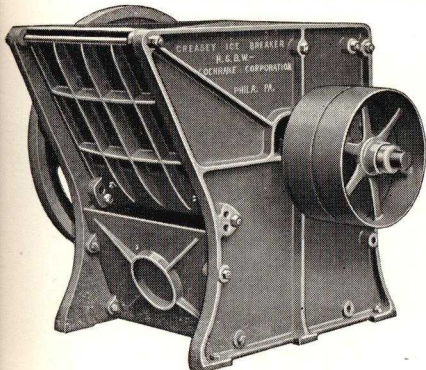
This type of drive is extremely simple, rugged and fool-proof and free from complications. There are no gears of any kind to make noise, to jam and break, to get out of alignment, and to require constant lubrication. Stalling of the ice breaker also cannot tear things to pieces. The Creasey Drive does not require constant tinkering to keep it in service.

Price includes the outfit complete, including: ice breaker, motor, starter for motor, belt and idler drive, casing to cover drive, baffle to protect motor, and heavy fly-wheel.

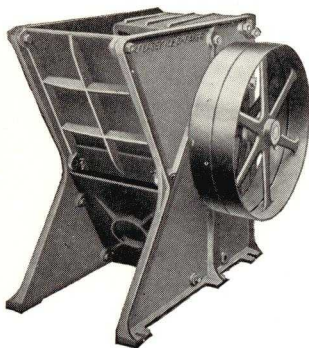
Shipped completely set up and crated; no assembling required in the field other than making electric connections.

	2 or 3 Phase		D. C.	Single Phase A. C.
	A. C. 60 Cycle 110 or 220 V.	220 V.	220 V.	110 or 220 V.
No. 50-HT	29 1/2 x 18 1/2	5 H. P.	\$725.00	\$840.00
No. 50-Y	29 1/2 x 18 1/2	5 H. P.	675.00	790.00
No. 51-Y	19 1/2 x 18 1/2	3 H. P.	550.00	670.00
No. 52-Y	15 1/2 x 18 1/2	1 1/2 H. P.	470.00	535.00
No. 54-Y	11 1/2 x 16 1/2	1 H. P.	400.00	425.00
No. 55-Y	10 1/4 x 16	3/4 H. P.	365.00	390.00
				400.00

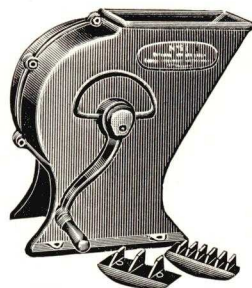
STANDARD BELT DRIVEN AND HAND OPERATED MACHINES.



50Y - 51Y - 52Y



53Y - 54Y - 55Y



55H - 56 - 57

Sizes, Dimensions and Prices of Creasey Ice Breakers.

Size	Service	Ice Opening, Inches	Floor Space Covered, Inches	Average Shipping Weight	List Prices F. O. B. Phila.
48-HT	Power only, Hopper-type, with	34 x 29	62 1/2 x 50 1/4	3600 lbs.	\$750.00
49-HT	Power only, cast iron collecting	28 1/2 x 27	56 x 50 1/4	3100 "	655.00
50-HT	Power only, bottom.	29 1/2 x 18 1/2	53 1/2 x 38 1/2	1500 "	310.00
48	"	34 x 29	62 1/2 x 50 1/4	3240 "	710.00
49	"	28 1/2 x 27	56 x 50 1/4	2900 "	635.00
50-Y	"	29 1/2 x 18 1/2	53 1/2 x 38 1/2	1350 "	265.00
51-Y	"	19 1/2 x 18 1/2	42 1/2 x 38 1/2	1050 "	215.00
52-Y	Hand or power	15 1/2 x 18 1/2	38 1/2 x 38 1/2	925 "	185.00
53-Y	" or power	13 1/2 x 16 1/2	27 1/2 x 31 3/4	650 "	145.00
54-Y	" or power	11 1/2 x 16 1/2	25 1/2 x 31 3/4	600 "	125.00
55-Y	Power only	10 1/4 x 16	22 3/4 x 30	450 "	115.00
55-H	"	10 1/4 x 15 1/2	15 x 30	305 "	75.00
56	"	9 1/4 x 14 1/2	14 x 25	225 "	65.90
57	"	8 1/8 x 14 1/2	12 x 24	200 "	55.00
59	" japanned, complete	7 x 9 1/4	12 x 15 1/2	100 "	40.00
59	" painted and without base, pan and scoop	7 x 9 1/4	12 x 15 1/2	100 "	32.00

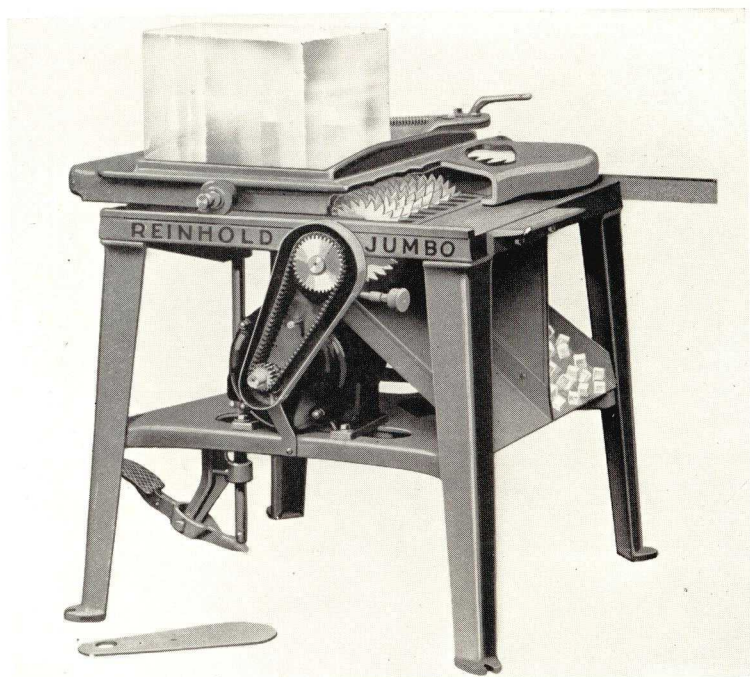
Discount on Application

"XX" types also built for breaking ice into extra-fine pieces for special uses.

Write for Illustrated Catalog on Creasey Breakers.

GIFFORD-WOOD CO.

Ice Cube Cutters



JUMBO ICE CUBE CUTTER.

Patented

Ice manufacturers who have added cubed ice to their service are most enthusiastic about its sales building power. They consider their cubed ice service to be one of their best advertising mediums, and an effective weapon against mechanical refrigeration.

The new Jumbo, with chain drive, is the most efficient cuber ever built. Its *seven* vertical saws and one horizontal saw cut cleanly, swiftly and without waste. Sturdy and strong, built like a bridge—the Jumbo will turn out your mountains of ice cubes, hour after hour and month after month.

Mechanically the Jumbo is a joy. All gears machine cut, babbitted bearings, roller raceways for shifting slide, foot-operated turn-table, and device for holding ice rigid. Motor mounted beneath, all saws guarded. Machine is movable. Finish is grey enamel. (Divided delivery apron separates the cubes and sawings. One piece complete safety saw guard cut open in the illustration to show the saws.) Size 45" x 58" including full carriage stroke. Motor 1½ H. P., A. C. or D. C. Motor speed 1725 R. P. M. Machine speed 850 to 900 R. P. M. Shipping weight 675 lbs.

The Jumbo can be supplied without motor, but equipped with tight and loose pulleys for belt drive.

Ice cube cartons illustrated and described on page 66.



Tumblers containing a cube of clear ice leaves an impression and creates a further demand for cubed ice.

Price quoted upon application.

ICE —DEPENDABLE— TOOLS

Ice Cube Cutters



SENIOR ICE CUBE CUTTER.

Patented.

A newly designed Reinhold, with capacity of 5000 to 6000 uniform cubes per hour. Takes ice cake 8" x 11", and any height. Very sturdy. Movable. All saws, silent chain and moving parts enclosed—giving absolute safety. Babbitted bearings, cut gears, solid, straight line construction. Finished in gray enamel. 1 H. P. Motor.

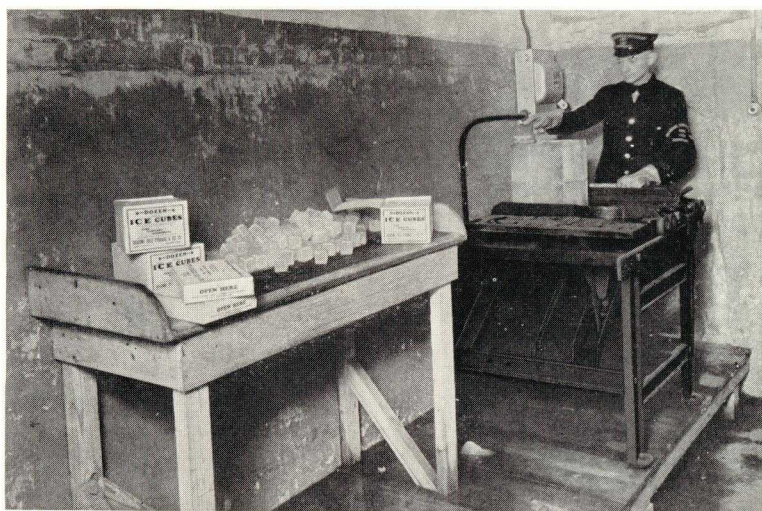


JUNIOR ICE CUBE CUTTER.

Patented.

Completely re-designed, with all moving parts enclosed, babbitted bearings, cut gears, solid construction. It may be used as a hand-driven, belt-driven, or direct motor-driven machine. Motor-shelf is provided on all machines, so that a hand-operated "Junior" can be changed to motor drive without returning it to the factory.

3,000 1½" Perfect Cubes an Hour. Takes ice cakes 8" square, or smaller, and any height. 4 Kerfing saws. New design. Absolutely safe. ½ H. P. Motor.



THE MARKET FOR CUBED ICE IS UNLIMITED.

Soda fountains, hotel, restaurants, use cubes for economy, convenience, time saving, and to please their trade. You sell to them.

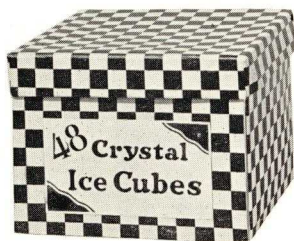
Prices quoted upon application.

GIFFORD-WOOD CO.

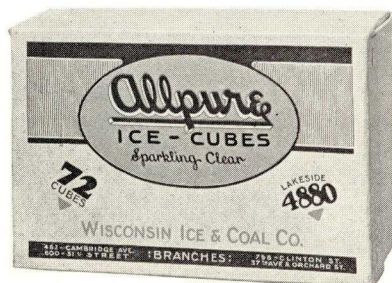
Carton For Ice Cubes



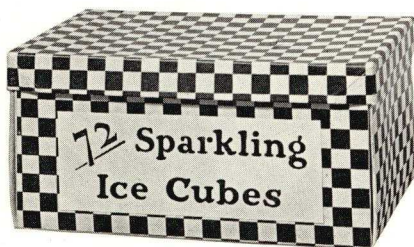
Sample carton sent upon request.



Covers fit snugly, making cartons practically air proof.



We will submit sketches of ideas for designs when printing on cartons is desired.



Compactness and ease of assembling a distinctive feature of these cartons.

Sizes—Cartons can be furnished in three sizes:—24, 48, or 72 cubes.

Handling—Waterproof cartons simplify handling of cubed ice, retard melting, may be packed in chipped ice and salt. The convenient cartons please your customers—for home table service, fountain use, and restaurants.

Transportation—It is obvious that a carton for transporting purposes must have certain basic properties. It must be sufficiently strong and sturdy to stand the rough handling to which it will be subjected from the time it is packed in its flat state, until it has been emptied of its last cube.

Strength—To “stand the Gaff” an Ice Cube Carton must be the practical equivalent of a sturdy shipping container, capable of carrying its contents to destination with a safety factor to safeguard its contents against exceptional conditions.

Test—Our cartons are thoroughly waterproof. By this we do not mean that they must merely shed water, but that they will stand square and rigidly even when set in water or on the cake of ice in the family refrigerator for a period of several days if necessary.

Cartons are made of a plied combination box board that is thoroughly water-proofed by the plying of *two* (instead of the usual one) laminations of Asphaltum lined water-proofing. One of these plies is the inside liner, the second is the outside liner. Under our own observation these cartons have not only held water for ninety days but they did not break down when actually set in a pan of water and filled with water. This was an unusually severe test but we did not feel that we could offer a carton under our own name and sponsor it unless it was unusually good.

Shipping—Cartons are shipped perfectly flat and are quickly set up ready for filling without the use of any tools, the complete operation being done with the hands with perfect ease.

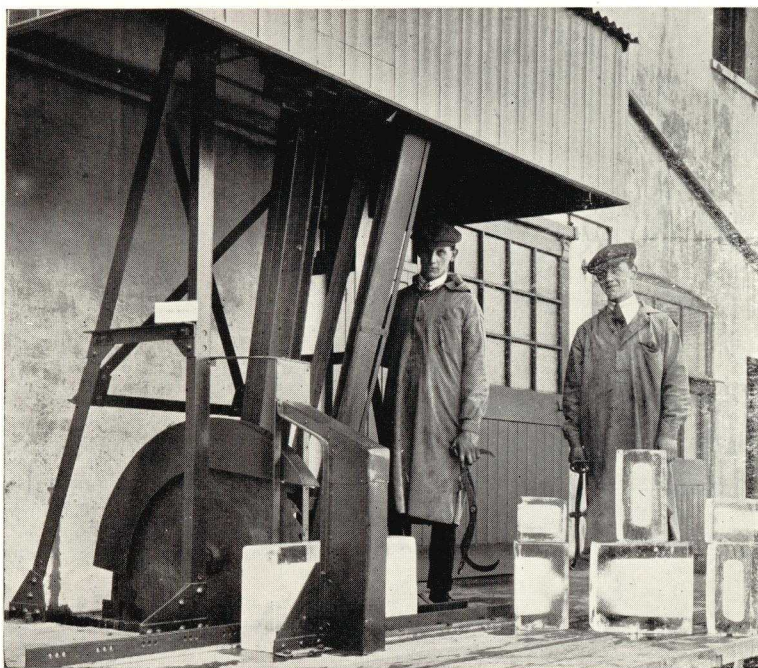
Guarantee—These cartons are guaranteed not to affect other contents of the ice chest nor to emit odors or taste of any kind.

Distributors—Gifford-Wood Co. are the sole distributors for the United States and Canada.

Prices quoted upon request.

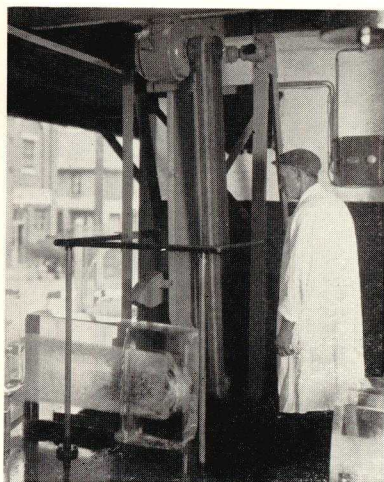
ICE —DEPENDABUILT— TOOLS

G-W Swing Cut-off Saws



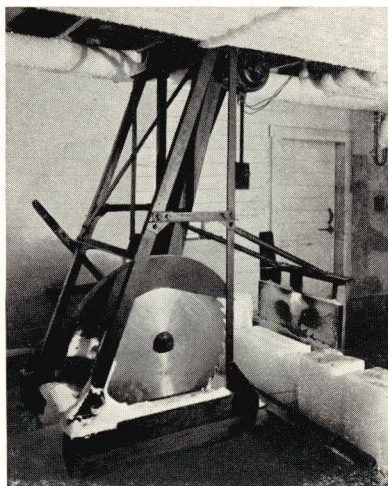
Patented 1923

The Lightfoot Refrigeration Co., Ltd., London, E. C. 4.



Patented 1923

**The Lightfoot Refrigerating Co., Ltd.,
London, E. C. 4.**



Patented 1923

**Graham Ice Cream Co.,
Fremont, Nebr.**

This saw is simple in design and rigid in construction, and it will cut cakes of any desired size down to the thinnest sections without breakage. Checked ice which could not be successfully divided by pick or hand axe can be sawed into neat blocks with this machine and utilized in the retail trade.

Write for Bulletin No. 726 and prices.

GIFFORD-WOOD CO.

Ice Truck Bodies



Patented July 11, 1928

Gifford-Wood Ice Truck Bodies are substantially constructed of seasoned oak with wrought iron fittings and are securely bolted to a rigid yellow pine frame that fits snugly to the chassis.

The sides are 24 inches high and are covered with sheet metal, providing an ample, smooth and glossy surface for decorating.



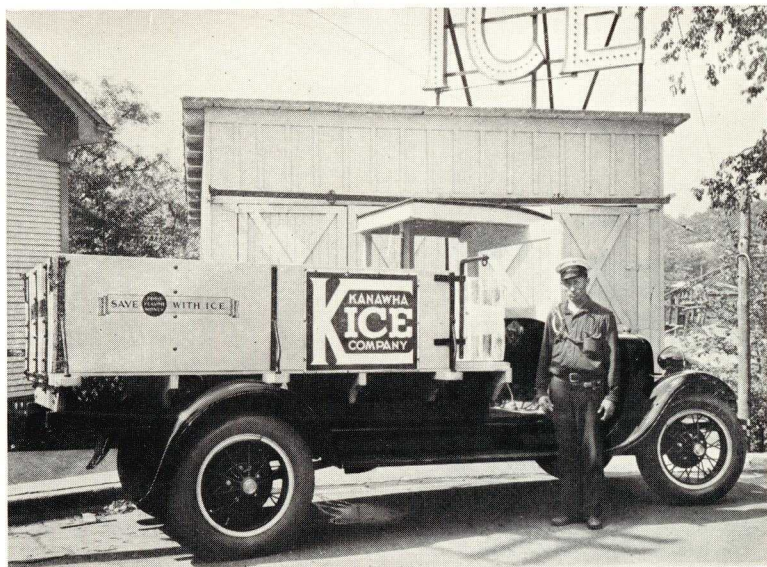
Patented July 11, 1928

The cab covers only the seat, leaving clear head room above the cutting platform so as not to hamper the driver while cutting the ice. After the ice is cut to the desired size the driver steps to the curb and with his tongs pulls the piece of ice to be delivered on to his shoulder. Returning to his truck he puts his tongs on the cutting platform, swings the gate bar across the opening, mounts his seat and starts for the next delivery location.

Write for full information and prices.

ICE —DEPENDABUILT— TOOLS

Ice Truck Bodies



Patented July 11, 1928

Ice Truck Bodies are made in two sizes for 8 cakes of 300 or 400 pounds of ice. Standard sizes for Ford and Chevrolet chassis. Bodies for other trucks made to order. Furnished complete with supporting frame, cab, seat, windshield, removable floor of oak slats and drip pan. Truck floor slopes forward so ice works to front against gate bar.



Patented July 11, 1928

Those who have used our Ice Truck Bodies state that they cut \$1.20 per ton off the delivery cost. It also makes the use of motor trucks for ice delivery practicable. The man stays at the front of the truck all the time. He does not have to get out and walk around to the back of the truck and let down the tail board every time he stops to make a delivery. He does not have to go to the back of the truck when he returns from the house. Instead he works on the front end of the truck entirely after he starts delivering ice.

Write for full information and prices.

GIFFORD-WOOD CO.

G-W Terminal Car Icer



Patented June 21, 1927

The G-W Car Icer lies entirely within the body lines of the truck. Entirely a self contained unit. Can be applied to any make or model of truck capable of mounting a vertical hydraulic hoist, which is the power unit employed. Takes up but little body space. The 5 ton truck shown above carries the hoist and 8 tons of ice.



Patented June 21, 1927

The Denver Ice & Cold Storage Co., Denver, Colo.

An ingenious rigging arrangement multiplies the stroke of the hoist four times. A 36 inch stroke hoist will elevate 1000 pounds of ice 12 ft. Only three men required to operate. Can ice cars at the rate of 1000 pounds in 3 minutes. Compare this method both for safety and speed with the old method of tossing chunks of ice from truck to cab roof and from cab roof to car top.

Write for full information and prices.

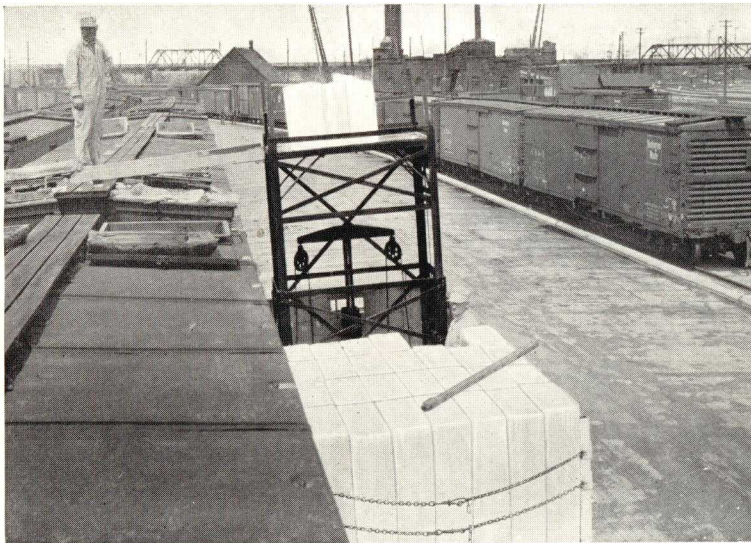
ICE —DEPENDABUILT— TOOLS

G-W Terminal Car Icer



Patented June 21, 1927

These trucks make short work of re-icing cars where an icing platform is not available. Can ice cars in a half dozen different railroad yards in the course of a day without the use of trailers or feeders. Illustration above shows the forward truck loaded with 400 pound cakes while the rear truck is utilizing retail route returns.



Patented June 21, 1927

The Denver Ice & Cold Storage Co., Denver, Colo.

Note how the ice can be loaded into far bunker or by the removal of a slat section in bottom, loaded into near bunker. Hoist automatically engages chute on each up stroke and disengages on lowering.

The use of the G-W Car Icer does not interfere with general purpose, hauling being done by truck in the summer. In winter the telescoping frame elevator can be removed and a dump body substituted for hauling coal. Where else can you secure a general purpose unit with the flexibility and adaptability of this unit? Pays for itself the first year and big dividends thereafter.

Write for full information and prices.

GIFFORD-WOOD CO.

WESTERN JITNEY TONGS.

Western JITney Ice Tongs are made of selected mild steel, $\frac{3}{4}$ " x $\frac{3}{16}$ " and are constructed along the most scientific lines.

The pattern of these tongs is the result of extensive experimenting, together with our broad knowledge of the ice tool business.

The bows are shaped so that when the tongs grasp the ice, the hold is positive. The points are thin. They "dig in" and never slip.



The curved open top handle is held by single links and provides a comfortable grip for the hand.

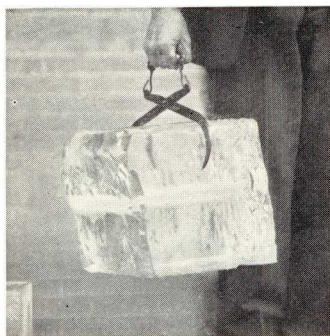
Especially designed for householders who go to the ice plant or jitney station for their ice.

Icemen buy these tongs in quantities and distribute them to their trade as Good Will builders.

Include a supply of these tongs in your stock—your customers will appreciate their quality, usefulness and convenience.

No. 101. Per Doz. \$3.25

Weight per Doz., 12 lbs.



Notice how the points of the Western JITney Tongs "bite in" leaving no doubt as to their serviceability.



Only tongs designed along scientific lines will take hold of ice in this way. The special shaped points hold securely.

G-W JITney Tongs are built for jitney station customers, and possess many of the features of G-W Ice Tongs used by ice men everywhere.



Nearly a century of ice tool manufacturing experience makes it possible for us to offer these sturdy tongs at these very low prices.

Western JITney Tongs.

Tested Capacity 125 lbs.

ICE —DEPENDABUILT— TOOLS



No. 104

Double Acting Tongs.

Diamond Points
13 in. Per Doz. \$6.75
Weight Per Doz. 25 lbs.

Our Double Acting Jitney Tongs are well balanced, practical and hold any size piece of ice equally secure. A very sturdy and popular tong for household and jitney station use.



No. 106

Eastern Jitney Tongs.

Diamond Points
13 in. Per Doz. \$8.50
Weight Per Doz. 21 lbs.

Forged from selected mild steel; particularly strong. Made with large oval handles and diamond points. Very popular in the Eastern and Southern states.



No. 112

Mail Order Tongs.

Duck Bill Points
21 in. Per Doz. \$12.00
Weight Per Doz. 40½ lbs.

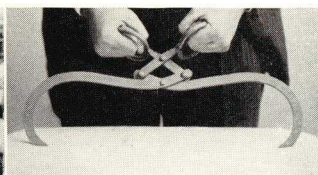
A strong, durable tong with stiff bows and duck bill points. Popular with farmers, dairymen and retail tradesmen such as butchers, grocers, etc. Made of high carbon steel.



Ice house on a model dairy farm. A 300 lb. cake being taken out with a pair of Mail Order Tongs, the sure grip makes it possible to get the ice out without breakage.



View in the milk house. Ice being lowered into the tank with a pair of Mail Order Tongs that grip the ice securely insuring safety in handling.



This Double Acting Jitney Tong does away with all fear of "skinned

knuckles." When the tongs are opened wide to span their full width, the handles can not strike down on the bows—thereby allowing ample room for the hands.

GIFFORD-WOOD CO.

Miscellaneous Tools

CONTRACTOR'S UTILITY CHISEL

No. 760. Price, \$5.00 each

Weight, 15 lbs.; length over all, 54 in.; blade, 3 in. wide.

For stripping concrete forms—It saves labor, saves lumber, it cuts nails and wire. The blade's knife edge noses into cracks the crow bar cannot find; its length gives prying leverage unknown to the wrecking bar. The ring handle fits over a 2 x 4 for twisting studs loose from the forms.

For house wrecking, removing shingles, or lath and plaster, tearing up floors and unjointing heavy timber construction. It does not decrease the salvage value.

Made with heat treated chrome steel blade and shank, tongue-welded to solid steel shaft and steel ring handle. Sharp blunt edge of extra hard steel.

Every contractor, builder, and mason can use this tool. Will more than pay for itself after a few hours use.



Prying apart timber used for concrete forms. No splintered or broken lumber on this job.



The stout ring handle fits over a 2 x 4 for twisting studs loose from forms.

SIDEWALK ICE CHOPPER

No. 770. Price, \$1.40 each.

Weight, wood handle, 5 lbs.; length over all, 4 ft. 9 in.; blade 6 1/2 in. x 5 in.

A superior type of chopper. The blade is made of a heavy piece of special steel welded to a steel tubing. The edge is sharpened to cut through frozen snow or ice and tempered to withstand abuse. The edge will positively not turn over. The handle inserted in the steel socket is of selected ash.



Scraping a cement driveway with the Sidewalk Ice Chopper.

No. 760
Contractor's
Utility Chisel.

Many industrial plants have found various uses for our Sidewalk Ice Chopper. This tool is in big demand for scraping and cleaning cement floors in factories, garages, etc.

No. 770
Sidewalk
Ice Chopper.

The slightly curved blade and sharp cutting edge makes this a most desirable tool for many uses.

ICE —DEPENDABUILT— TOOLS

Sod Lifters



No. 765.—Sod Lifter, D. Handle..... Code Word Each
Trumpet \$5.75
 Length over all 4 ft. 11 in.; blade, 8 in. x 7½ in. Weight, 10 lbs.

A very substantial implement for use on country estates, golf courses, in cemeteries and wherever it is necessary for cutting and lifting sod for transplanting.



This picture shows the sod lifter in use on a golf course. With this tool the sod is cut uniformly and rolled while being cut.



After marking out the width of strip to be cut, the keen cutting blade does the work easily and with little effort on the part of the user.

GIFFORD-WOOD CO.

G-W Street Ice Leveler

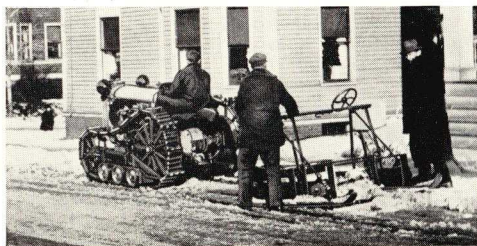


Fully Protected by Pending Patent Applications

The Gifford-Wood Street Ice Leveler is used extensively in numerous northern cities by municipalities and street railway companies for removing the accumulation of ice and frozen snow on city streets and other public highways during the severe winter period. This machine cuts out the humps between the wheel ruts and leaves a level street slightly corrugated to provide a sure footing for automobile tires. It will cut the ice loose to within $1\frac{1}{2}$ inches of the pavement.



City of Fitchburg, Mass.



City of Portland, Me.



City of Hudson, N. Y.



City of Glens Falls, N. Y.

Write for Bulletin No. 1027 and prices.

ICE —DEPENDABUILT— TOOLS

G-W Skating Rink Planer



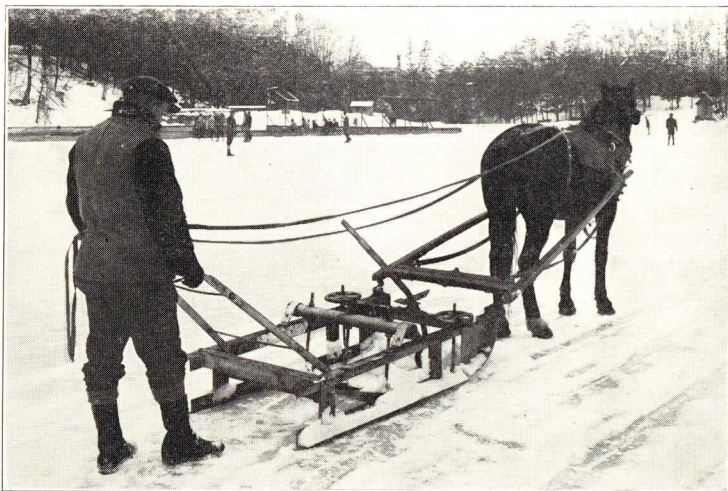
The Gifford-Wood Skating Rink Planer is used extensively by Universities, Athletic Associations, Municipalities, and Public Skating Rink Owners for re-surfacing the ice frequently during the skating season. The fact that you can resurface a whole rink, pond, or lake, with this machine without barring the skaters for even a minute has caused many rink managers to abandon the practice of flooding or spraying and re-freezing to obtain a new surface. Many rinks are planed every day, and sometimes twice a day, during the season, without interrupting the pleasure seekers.

The Gifford-Wood Skating Rink Planer is made in two sizes, for either a 30 inch or 51 inch wide cut. Shafts or a team pole are furnished when horses are to be used. A rigid steel yoke, as illustrated above, is furnished when a tractor or motor truck is to be used.

Rigidly constructed of structural steel members, this planer is nevertheless comparatively light. It is equipped with a cutter bar faced with genuine tool steel, tempered and ground to shave the surface of the ice to a perfect flatness.

"We have had three of your skating rink planers in almost constant use on Beebe Lake during the last two winter seasons and have found them satisfactory in every way.

At Beebe Lake we have a skating area of about twenty acres. We attempt to keep this in shape from the Christmas vacation to the middle of March, both in the day time and under artificial light at night. The place has a tremendous amount of use and on a good Saturday we will frequently have as many as 6,000 people skating there. This makes it necessary to resurface at least once every day and frequently twice a day.



CORNELL ATHLETIC ASSOCIATION, ITHACA, N. Y.

The three planers, by working constantly, will accomplish this. For our purpose the planing method of resurfacing is superior to flooding or spraying for the reason that the process can go on without stopping the skating for a minute.

Very truly yours,

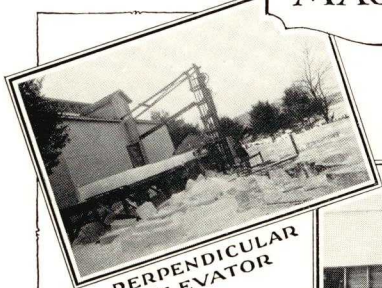
Romeyn Berry,

Graduate Manager, Cornell University Athletic Asso.

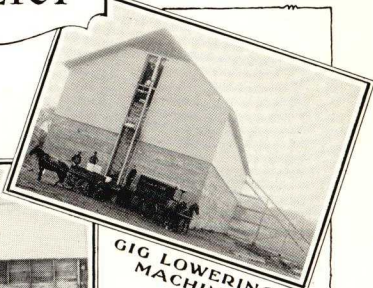
Write for Bulletin No. 1027A and prices.

GIFFORD-WOOD CO.

ICE HANDLING MACHINERY



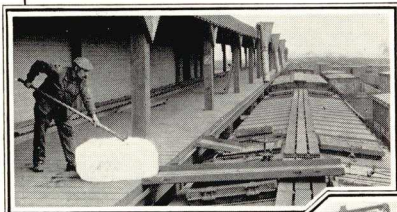
PERPENDICULAR
ELEVATOR



GIG LOWERING
MACHINE



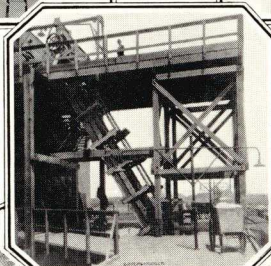
DOUBLE GIG ELEVATOR



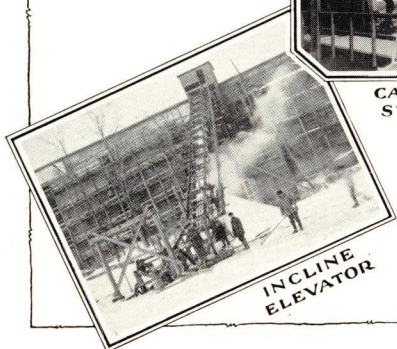
CAR ICING
STATION



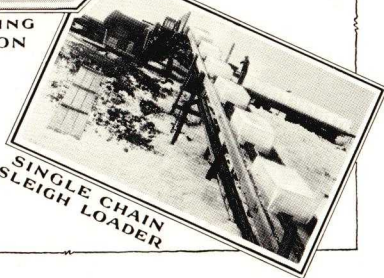
UNDERSHOT
ELEVATOR



CAR ICING
STATION



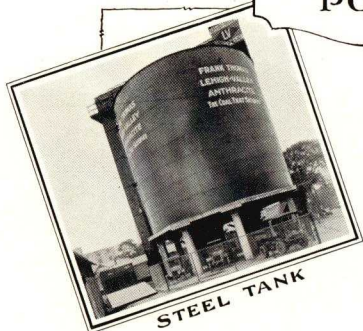
INCLINE
ELEVATOR



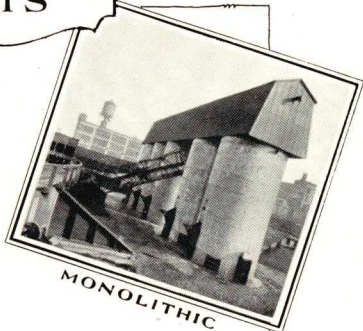
SINGLE CHAIN
SLEIGH LOADER

Write for Ice Machinery Catalog No. 1226.

MODERN
COAL
POCKETS



STEEL TANK



MONOLITHIC



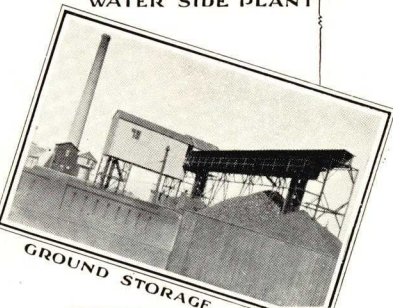
CONCRETE STAVE



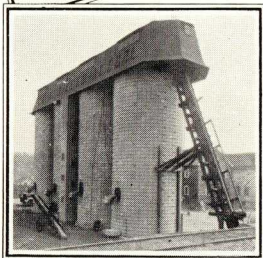
WATER SIDE PLANT



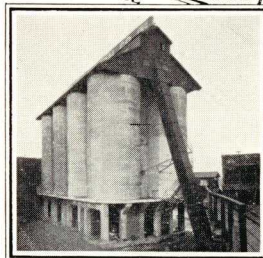
MONOLITHIC



GROUND STORAGE



CONCRETE STAVE

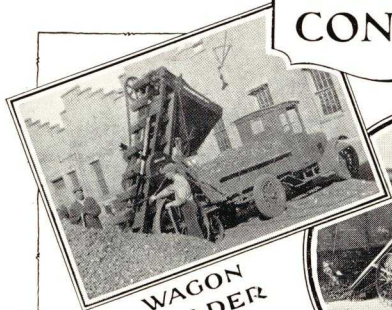


MONOLITHIC

Write for Coal Machinery Catalog No. 827.

GIFFORD-WOOD CO.

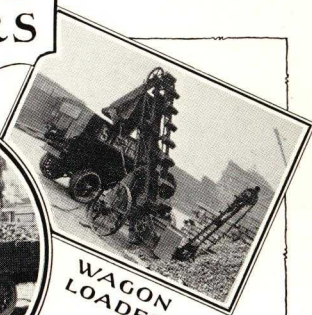
PORTABLE CONVEYORS



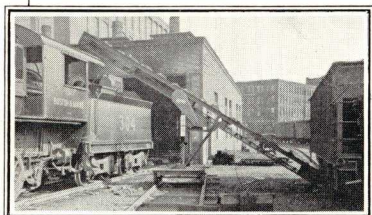
WAGON
LOADER



TROUGHED BELT CONVEYOR



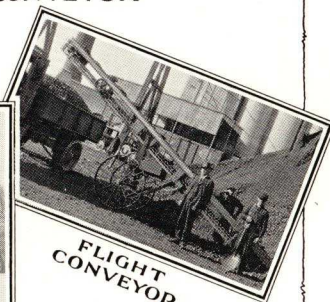
WAGON
LOADER



FLIGHT
CONVEYOR



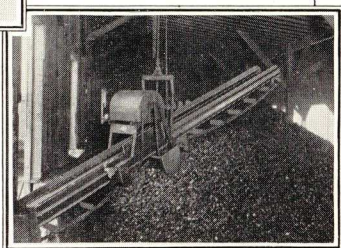
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CONVEYOR



FLIGHT
CONVEYOR



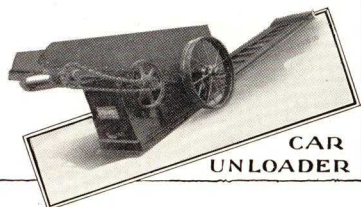
FLAT BELT
CONVEYOR



FLIGHT
CONVEYOR



CAR UNLOADER
AND
FLIGHT CONVEYOR



CAR
UNLOADER

Write for Bulletin and prices.

ICE —DEPENDABUILT— TOOLS

HANDLING MACHINERY *for* INDUSTRIAL PLANTS



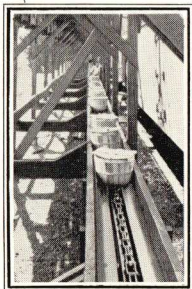
SLAT CONVEYOR



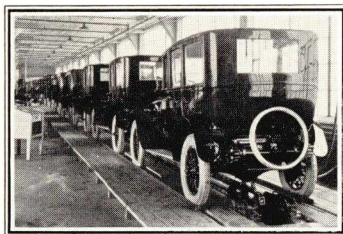
PACKAGE ELEVATOR



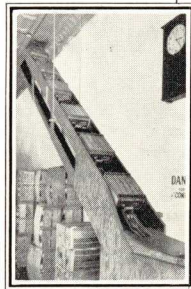
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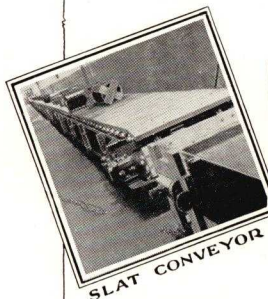
SINGLE CHAIN
CONVEYOR



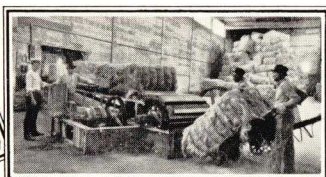
FINISHED ASSEMBLY
CONVEYOR



SINGLE CHAIN
CONVEYOR



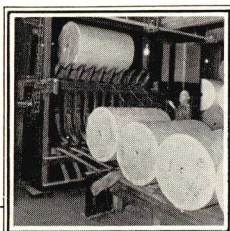
SLAT CONVEYOR



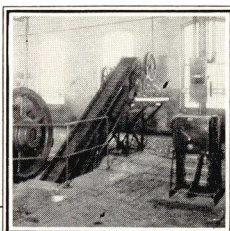
SLAT CONVEYOR



SLAT CONVEYOR



TRAY ELEVATOR



STEEL PAN APRON CONVEYOR

Write for Material Handling Equipment Bulletin No. 98.

GIFFORD-WOOD CO.

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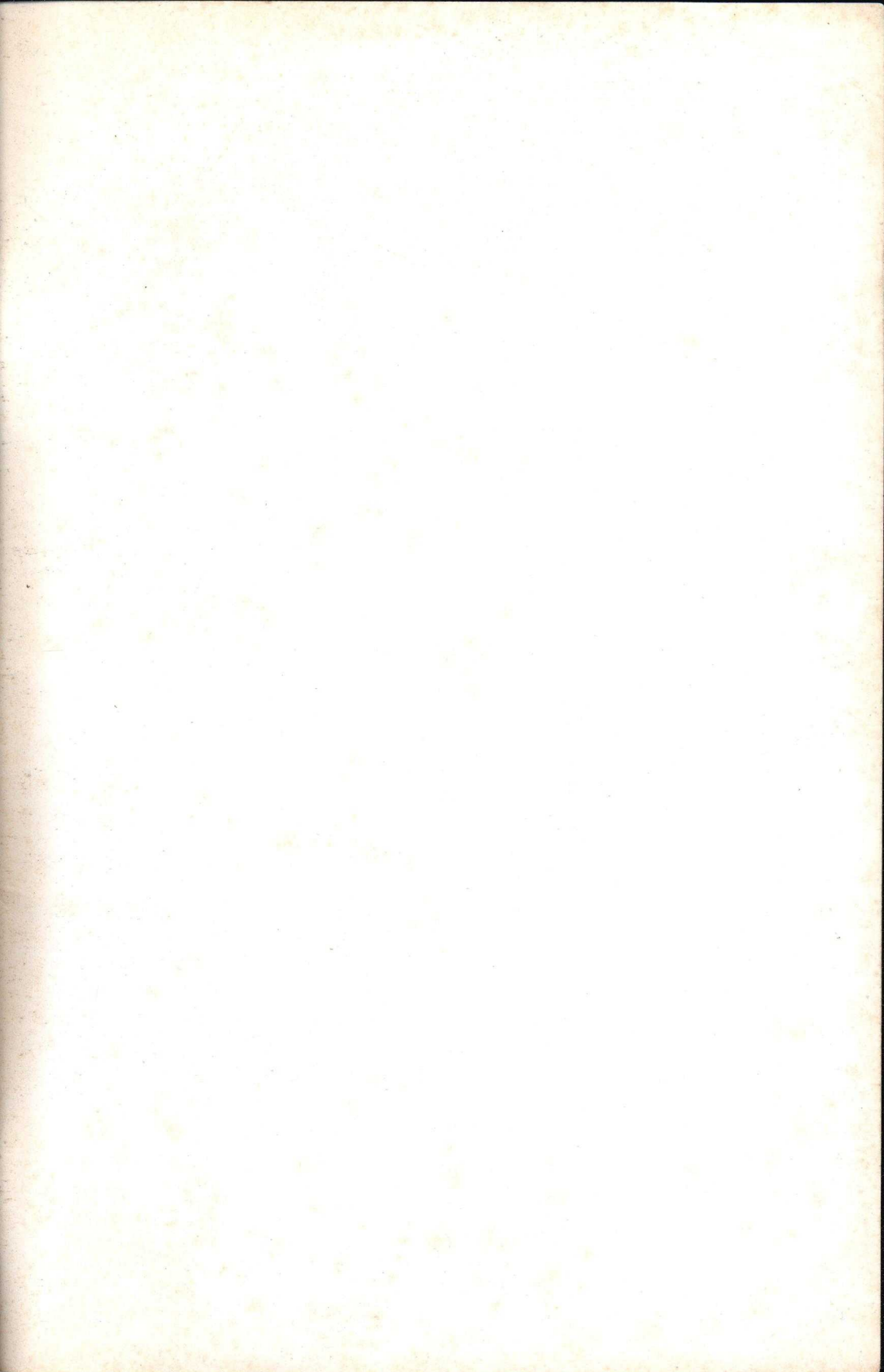
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MAKERS
for
NINETY YEARS

DISCOUNT EXCEPTION SHEET

The following items are exceptions to our regular discount
and subject to 25% discount F. O. B. Hudson, N. Y.

Catalogue No.

266-268.....	Planer Brushes
284-285.....	Boston Snow Scrapers
300.....	Economy Snow Scrapers
315-317, 318-319, 320-322.....	King Plows
*355, 330.....	Page 18 Perfection Markers
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507.....	Perforated Ice Scoops
628, 628 $\frac{1}{2}$, 628 $\frac{3}{4}$	Advertising Ice Picks
636.....	Whisk Brooms
669.....	Upright Fiber Brooms
700-708.....	Scales
710-711.....	Upper and Lower Gins
712-716.....	Sheave Wheels
781, 782, 782 $\frac{1}{2}$, 783, 784, 784 $\frac{1}{2}$, 785, 785 $\frac{1}{2}$, 785 $\frac{3}{4}$	Ice Delivery Bags
787.....	Ice Bags and Mallets

* These Markers and Plows priced on pages 18 and 19 are sold at the Special List Prices published, no discount being allowed on these items.

Gifford-Wood Co.

HUDSON, N. Y.

CHICAGO
565 W. Washington St.

NEW YORK
Graybar Building
Lexington Ave. at 43rd St.

SAN FRANCISCO
555 Howard St.

DISCOUNT EXCEPTION SHEET

The following items are exceptions to our regular discount and subject to 25% discount F. O. B. Hudson, N. Y.

Category No.	
300-308	Planer Brushes
304-305	Boston Snow Scrapers
300	Economy Snow Scrapers
315-317, 318-319, 320-322	King Plows
325-330	Page 18 Perfection Markers
337-340	Page 18 Perfection Plows
341-347, 348, 381, 382, 384	Page 19 Solid Tooth Plows
307	Perforated Ice Scoops
328, 329, 330	Advertising Ice Picks
330	Whisk Brooms
339	Upright Fiber Brooms
700-708	Scalers
710-711	Upper and Lower Cuts
712-716	Sheave Wheels
781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000	Ice Bars and Mallets

* These Markers and Plows priced on pages 18 and 19 are sold at the regular list prices published, no discount being allowed on these items.

Gifford-Wood Co.

HUDSON, N. Y.

SAN FRANCISCO
282 Howard St.

NEW YORK
Gardner Building
Lexington Ave. at 43rd St.

CHICAGO
365 W. Washington St.

Ice Tool Prices



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That it pays to buy the best is particularly true of ice tools and supplies. Our line enjoys the record and reputation of nearly one hundred years of manufacture.

Your orders for "Dependabuilt" Ice Tools of every description will be filled promptly from stock.

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